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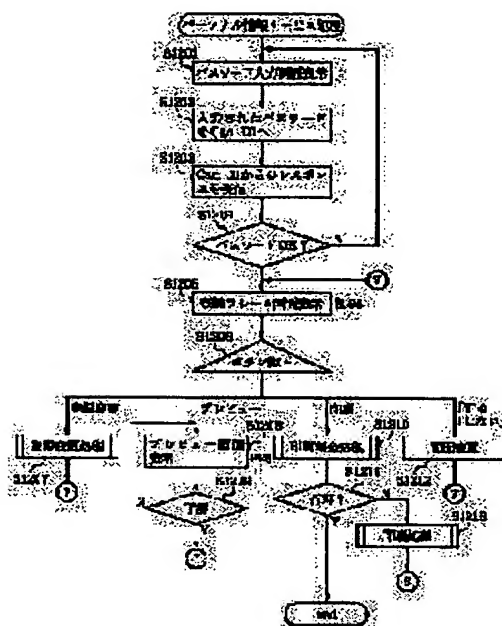
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(54) DEVICE, TERMINAL, AND METHOD FOR INFORMATION PROCESSING, AND
COMPUTER-READABLE RECORDING MEDIUM STORED WITH INFORMATION
PROCESSING PROGRAM



(57)Abstract:

PROBLEM TO BE SOLVED: To output detailed information with high quality anywhere at any time by obtaining pieces of output information that code information corresponds to and generating output information to be outputted in a specified layout.

SOLUTION: A kiosk terminal 110 receives a response from a CanDINet control part (S1203) and displays a registration frame picture when the response indicates that a password is correct (S1205). A user registers one or more P codes in a registration frame and then a paper surface composed of one or more pieces of information data registered for the registration frame can easily be printed out only by inputting the P code (personal P code) corresponding to the

registration frame to the kiosk terminal. Information that the P code registered for the registration frame corresponds to is information, such as 'closing prices of stocks' and 'weather of tomorrow', whose contents change with the time.

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CLAIMS

[Claim(s)]

[Claim 1] A recognition means to recognize two or more code information, and an acquisition means to acquire two or more print-outs in which said two or more code information recognized by said recognition means carries out a ***** response, The information processor characterized by having a generation means by which said two or more print-outs acquired by said acquisition means generate a print-out which is outputted with the specified layout, and a transfer means to transmit said print-out generated by said generation means to the output-control section.

[Claim 2] The information processor according to claim 1 characterized by another code information being equivalent to said code information.

[Claim 3] Said acquisition means is an information processor according to claim 2 characterized by acquiring the print-out to which the another code information concerned is equivalent when another code information is equivalent to said code information recognized by said recognition means.

[Claim 4] It is the information processor according to claim 1 to 3 which has a frame recognition means to recognize the frame information corresponding to said two or more code information, and is characterized by said recognition means recognizing said two or more code information that the frame information concerned corresponds from said frame information recognized by said frame recognition means.

[Claim 5] The information processor according to claim 4 characterized by having an additional means to add said new code information to said two or more code information that said frame information corresponds.

[Claim 6] Claim 4 characterized by having a deletion means to delete said code information, from said two or more code information that said frame information corresponds, or an information processor given in 5.

[Claim 7] The information processor according to claim 4 to 6 characterized by another frame information being equivalent to said frame information.

[Claim 8] Said recognition means is an information processor according to claim 7 characterized by recognizing the code information to which the another frame information concerned is equivalent when another frame information is equivalent to

said frame information recognized by said frame recognition means.

[Claim 9] Said recognition means is an information processor according to claim 8 characterized by recognizing the newest code information among two or more code information that the another frame information concerned corresponds when another frame information is equivalent to said frame information recognized by said frame recognition means.

[Claim 10] The information processor according to claim 4 to 8 characterized by having a frame information transfer means to transmit said frame information to an external device.

[Claim 11] The information processor according to claim 10 which has a code information transfer means to transmit said two or more code information that said frame information transmitted by said frame information transfer means corresponds to said external device.

[Claim 12] They are claim 10 which has a storage means to memorize the password corresponding to said frame information, and a receiving means to receive said password from said external device, and is characterized by said frame information transfer means transmitting said frame information to which said password received by said receiving means corresponds, or an information processor given in 11.

[Claim 13] Said output-control section is an information processor according to claim 1 to 12 characterized by being a printing control section.

[Claim 14] The information processor according to claim 13 characterized by said printing control section being a printer control section of an electrophotography method.

[Claim 15] The information processor according to claim 13 characterized by said printing control section being a printer control section of an ink jet method.

[Claim 16] The information processor according to claim 1 to 15 characterized by connecting with said external device through a network.

[Claim 17] Claim 1 characterized by being monochrome output thru/or 16 put in, and said output is information-processor equipment given in whether it is a gap.

[Claim 18] Said output is information-processor equipment according to claim 1 to 16 characterized by being a color output.

[Claim 19] Said information processor is an information processor according to claim 1 to 18 characterized by being server equipment.

[Claim 20] The information processing terminal characterized by having a recognition means to recognize the frame information corresponding to two or more code information that it corresponds to a print-out, and a receiving means to receive said two or more code information that said frame information recognized by said recognition means corresponds, from an external device.

[Claim 21] The information processing terminal according to claim 20 with which the print-out to which said code information chosen by selection means to choose said predetermined code information among said two or more code information received by said receiving means, and said selection means is equivalent is characterized by having

a print-out receiving means to receive a print-out which is outputted with a predetermined layout.

[Claim 22] The information processing terminal according to claim 21 characterized by having a display means to display the preview screen of said print-out received by said print-out receiving means.

[Claim 23] Claim 21 characterized by having an output-control means to make said print-out output to the output section, or an information processing terminal given in 22.

[Claim 24] Said output-control means is an information processing terminal according to claim 23 characterized by being a printing control means.

[Claim 25] Said output section is an information processing terminal according to claim 24 characterized by being the printer section of an electrophotography method.

[Claim 26] Said output section is an information processing terminal according to claim 24 characterized by being the printer section of an ink jet method.

[Claim 27] Said output section is an information processing terminal according to claim 24 to 26 characterized by having the double-sided unit.

[Claim 28] It is the information-processing terminal according to claim 20 to 27 which has a password input means enter the password corresponding to said frame information, and a password transfer means transmit said password entered by said input means to said external device, and is characterized by for said receiving means to receive two or more of said code information that said frame information to which said password transmitted by said password transfer means corresponds.

[Claim 29] The information processing terminal according to claim 20 to 28 which makes it ** to have a frame information-display means to display said frame information.

[Claim 30] The information processing terminal according to claim 20 to 29 characterized by having a code information-display means to display said code information.

[Claim 31] The information processing terminal according to claim 20 to 30 characterized by connecting with said external device through a network.

[Claim 32] Said output is an information processing terminal unit according to claim 20 to 31 characterized by being monochrome output.

[Claim 33] Said output is an information processing terminal according to claim 20 to 31 characterized by being a color output.

[Claim 34] The information processing terminal according to claim 20 to 33 characterized by including settlement-of-accounts processing facility equipment.

[Claim 35] The information processing terminal according to claim 20 to 34 characterized by including the UI section for inputting frame information.

[Claim 36] The information processing terminal according to claim 20 to 35 characterized by connecting with the coin counter for payment of the countervalue of an output.

[Claim 37] The information processing terminal according to claim 20 to 36

characterized by having the input unit of said code information.

[Claim 38] The recognition step which recognizes two or more code information, and the acquisition step which acquires two or more print-outs in which said two or more code information recognized by said recognition step carries out a ***** response, The generation step to which said two or more print-outs acquired by said acquisition step generate a print-out which is outputted with the specified layout, The information processing approach characterized by having the transfer step which transmits said print-out generated by said generation step to the output-control section.

[Claim 39] The information processing approach according to claim 38 characterized by another code information being equivalent to said code information.

[Claim 40] Said acquisition step is the information processing approach according to claim 39 characterized by acquiring the print-out to which the another code information concerned is equivalent when another code information is equivalent to said code information recognized by said recognition step.

[Claim 41] It is the information processing approach according to claim 38 to 40 which has the frame recognition step which recognizes the frame information corresponding to said two or more code information, and is characterized by said recognition step recognizing said two or more code information that the frame information concerned corresponds from said frame information recognized by said frame recognition step.

[Claim 42] The information processing approach according to claim 41 characterized by having the additional step which adds said new code information to said two or more code information that said frame information corresponds.

[Claim 43] Claim 41 characterized by having the deletion step which deletes said code information from said two or more code information that said frame information corresponds, or the information processing approach given in 42.

[Claim 44] The information processing approach according to claim 41 to 43 characterized by another frame information being equivalent to said frame information.

[Claim 45] Said recognition step is the information processing approach according to claim 44 characterized by recognizing the code information to which the another frame information concerned is equivalent when another frame information is equivalent to said frame information recognized by said frame recognition step.

[Claim 46] Said recognition step is the information processing approach according to claim 45 characterized by recognizing the newest code information among two or more code information that the another frame information concerned corresponds when another frame information is equivalent to said frame information recognized by said frame recognition step.

[Claim 47] The information processing approach according to claim 41 to 45 characterized by having the frame information transfer step which transmits said frame information to an external device.

[Claim 48] The information processing approach according to claim 47 of having the code information transfer step which transmits said two or more code information that

said frame information transmitted by said frame information transfer step corresponds to said external device.

[Claim 49] They are claim 47 which has the storage step which memorizes the password corresponding to said frame information, and the receiving step which receives said password from said external device, and is characterized by said frame information transfer step transmitting said frame information to which said password received by said receiving step corresponds, or the information processing approach given in 48.

[Claim 50] Said output-control section is the information processing approach according to claim 38 to 49 characterized by being a printing control section.

[Claim 51] The information processing approach according to claim 50 characterized by said printing control section being a printer control section of an electrophotography method.

[Claim 52] The information processing approach according to claim 50 characterized by said printing control section being a printer control section of an ink jet method.

[Claim 53] The information processing approach according to claim 38 to 52 characterized by connecting with said external device through a network.

[Claim 54] Claim 38 characterized by being monochrome output thru/or 53 put in, and said output is the information processing approach given in whether it is a gap.

[Claim 55] Said output is the information processing approach according to claim 38 to 54 characterized by being a color output.

[Claim 56] Said information processor is the information processing approach according to claim 38 to 55 characterized by being server equipment.

[Claim 57] The information processing approach characterized by having the recognition step which recognizes the frame information corresponding to two or more code information that it corresponds to a print-out, and the receiving step which receives said two or more code information that said frame information recognized by said recognition step corresponds, from an external device.

[Claim 58] The information processing approach according to claim 57 that the print-out to which said code information chosen by the selection step which chooses said predetermined code information among said two or more code information received by said receiving step, and said selection step is equivalent is characterized by having the print-out receiving step which receives a print-out which is outputted with a predetermined layout.

[Claim 59] The information processing approach according to claim 58 characterized by having the display step which displays the preview screen of said print-out received by said print-out receiving step.

[Claim 60] Claim 58 characterized by having the output-control step which makes said print-out output to the output section, or the information processing approach given in 59.

[Claim 61] Said output-control step is the information processing approach according to claim 60 characterized by being a printing control step.

[Claim 62] Said output section is the information processing approach according to claim 61 characterized by being the printer section of an electrophotography method.

[Claim 63] Said output section is the information processing approach according to claim 61 characterized by being the printer section of an ink jet method.

[Claim 64] Said output section is the information processing approach according to claim 61 to 63 characterized by having the double-sided unit.

[Claim 65] It is the information processing approach according to claim 57 to 64 which has the password input step which enters the password corresponding to said frame information, and the password transfer step which transmits said password entered by said input step to said external device, and is characterized by for said receiving step to receive two or more of said code information that said frame information to which said password transmitted by said password transfer step corresponds.

[Claim 66] The information processing approach according to claim 57 to 65 which makes it ** to have the frame information-display step which displays said frame information.

[Claim 67] The information processing approach according to claim 57 to 66 characterized by having the code information-display step which displays said code information.

[Claim 68] The information processing approach according to claim 57 to 67 characterized by connecting with said external device through a network.

[Claim 69] Said output is the information processing approach according to claim 57 to 68 characterized by being monochrome output.

[Claim 70] Said output is the information processing approach according to claim 57 to 68 characterized by being a color output.

[Claim 71] The information processing approach according to claim 57 to 70 characterized by including settlement-of-accounts processing.

[Claim 72] The information processing approach according to claim 57 to 71 characterized by including UI processing for inputting frame information.

[Claim 73] The information processing approach according to claim 57 to 72 characterized by connecting with the coin counter for payment of the countervalue of an output.

[Claim 74] The information processing approach according to claim 57 to 73 characterized by having the input process of said code information.

[Claim 75] It is the record medium in which reading [computer / by which the information processing program was stored] is possible. The information processing program concerned The recognition step which recognizes two or more code information, and the acquisition step which acquires two or more print-outs in which said two or more code information recognized by said recognition step carries out a ***** response, The record medium characterized by having the generation step to which said two or more print-outs acquired by said acquisition step generate a print-out which is outputted with the specified layout, and the transfer step which transmits said

print-out generated by said generation step to the output-control section.

[Claim 76] The record medium according to claim 75 characterized by another code information being equivalent to said code information.

[Claim 77] Said acquisition step is a record medium according to claim 76 characterized by acquiring the print-out to which the another code information concerned is equivalent when another code information is equivalent to said code information recognized by said recognition step.

[Claim 78] It is the record medium according to claim 75 to 77 which said information processing program has the frame recognition step which recognizes the frame information corresponding to said two or more code information, and is characterized by said recognition step recognizing said two or more code information that the frame information concerned corresponds from said frame information recognized by said frame recognition step.

[Claim 79] Said information processing program is a record medium according to claim 78 characterized by having the additional step which adds said new code information to said two or more code information that said frame information corresponds.

[Claim 80] Said information processing program is claim 78 characterized by having the deletion step which deletes said code information from said two or more code information that said frame information corresponds, or a record medium given in 79.

[Claim 81] The record medium according to claim 78 to 80 characterized by another frame information being equivalent to said frame information.

[Claim 82] Said recognition step is a record medium according to claim 81 characterized by recognizing the code information to which the another frame information concerned is equivalent when another frame information is equivalent to said frame information recognized by said frame recognition step.

[Claim 83] Said recognition step is a record medium according to claim 82 characterized by recognizing the newest code information among two or more code information that the another frame information concerned corresponds when another frame information is equivalent to said frame information recognized by said frame recognition step.

[Claim 84] Said information processing program is a record medium according to claim 78 to 83 characterized by having the frame information transfer step which transmits said frame information to an external device.

[Claim 85] Said information processing program is a record medium according to claim 84 which has the code information transfer step which transmits said two or more code information that said frame information transmitted by said frame information transfer step corresponds to said external device.

[Claim 86] They are claim 84 which said information processing program has the storage step which memorizes the password corresponding to said frame information, and the receiving step which receives said password from said external device, and is characterized by said frame information transfer step transmitting said frame information to which said password received by said receiving step corresponds, or a

record medium given in 85.

[Claim 87] Said output-control section is a record medium according to claim 75 to 86 characterized by being a printing control section.

[Claim 88] The record medium according to claim 87 characterized by said printing control section being a printer control section of an electrophotography method.

[Claim 89] The record medium according to claim 87 characterized by said printing control section being a printer control section of an ink jet method.

[Claim 90] The record medium according to claim 75 to 89 characterized by connecting with said external device through a network.

[Claim 91] Claim 75 characterized by being monochrome output thru/or 90 put in, and said output is a record medium given in whether it is a gap.

[Claim 92] Said output is a record medium according to claim 75 to 91 characterized by being a color output.

[Claim 93] Said information processor is a record medium according to claim 75 to 92 characterized by being server equipment.

[Claim 94] It is the record medium characterized by to have the recognition step which recognizes the frame information corresponding to two or more code information that are the record medium which can be read and said information-processing program is equivalent to a print-out by computer by which the information-processing program was stored, and the receiving step which receives two or more of said code information that said frame information recognized by said recognition step corresponds, from an external device.

[Claim 95] Said information-processing program is a record medium according to claim 57 with which the print-out to which said code information chosen by the selection step which chooses said predetermined code information among said two or more code information received by said receiving step, and said selection step is equivalent is characterized by to have the print-out receiving step which receives a print-out which is outputted with a predetermined layout.

[Claim 96] Said information processing program is a record medium according to claim 95 characterized by having the display step which displays the preview screen of said print-out received by said print-out receiving step.

[Claim 97] Said information processing program is claim 95 characterized by having the output-control step which makes said print-out output to the output section, or a record medium given in 96.

[Claim 98] Said output-control step is a record medium according to claim 97 characterized by being a printing control step.

[Claim 99] Said output section is a record medium according to claim 98 characterized by being the printer section of an electrophotography method.

[Claim 100] Said output section is a record medium according to claim 98 characterized by being the printer section of an ink jet method.

[Claim 101] Said output section is a record medium according to claim 98 to 100

characterized by having the double-sided unit.

[Claim 102] It is the record medium according to claim 94 to 101 which said information-processing program has the password input step which enters the password corresponding to said frame information, and the password transfer step which transmits said password entered by said input step to said external device, and is characterized by for said receiving step to receive two or more of said code information that said frame information to which said password transmitted by said password transfer step corresponds corresponds.

[Claim 103] Said information processing program is a record medium according to claim 94 to 102 which makes it ** to have the frame information-display step which displays said frame information.

[Claim 104] Said information processing program is a record medium according to claim 94 to 103 characterized by having the code information-display step which displays said code information.

[Claim 105] The record medium according to claim 94 to 67 characterized by connecting with said external device through a network.

[Claim 106] Said output is a record medium according to claim 94 to 105 characterized by being monochrome output.

[Claim 107] Said output is a record medium according to claim 94 to 105 characterized by being a color output.

[Claim 108] Said information processing program is a record medium according to claim 94 to 107 characterized by including settlement-of-accounts processing.

[Claim 109] Said information processing program is a record medium according to claim 94 to 108 characterized by including UI processing for inputting frame information.

[Claim 110] The record medium according to claim 94 to 109 characterized by connecting with the coin counter for payment of the countervalue of an output.

[Claim 111] Said information processing program is a record medium according to claim 94 to 110 characterized by having the input process of said code information.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the information processing approach, the output-control approach, the equipment, and the system which are the level to which satisfaction goes, are moreover a suitable layout, and can offer and acquire information for the side which acquires the side and information that information is offered.

[0002]

[Description of the Prior Art] From the former, the service which offers various kinds of information is considered. as the gestalt of informational service -- for example, 1: -- Internet Web, 2:Internet push type news distribution service, 3:FAX information ejection service, 4:newspaper journal attachment mold data claim coupon sending, 5:free dial inquiry, 6:data claim postcard sending, etc. are known. However, there are merits and demerits in each, and good service was desired rather than it provided more people with information.

[0003]

[Problem(s) to be Solved by the Invention] On the other hand, the communications service by text or image information has prospered by the spread of personal digital assistants, such as a cellular phone. However, by the display capacity of a personal digital assistant, there is a limit with size, a color, resolution, etc. Therefore, it is possible that the above-mentioned service is used with the form which complements this.

[0004] However, in the communications service of a conventional type which carried out [above-mentioned] listing, there is a limitation, respectively. In 1 and 2, the user who receives service is limited only to PC user or a terminal user well versed in the Internet environment. It will not come out so much and a user will require time and effort for finding out URL (Unifor Resource Locator) required in order to access to information to acquire.

[0005] A user is not only extracted to a FAX user, but 3 has a limit in the print capacity (monochrome, print preview) of the facsimile which an individual owns. Moreover, output costs (telephone charges, paper cost, etc.) also become a user burden.

[0006] Many and unspecified users are available at 4 and 6. However, it is several hours or several days after that a user can obtain information, after requiring service. Furthermore, an information provider side will need to prepare the physical processing organization for offering information, and will require information offer cost.

[0007] Moreover, in 5, it is only the information by language by telephone. After exchanging by means of language, as well as 4 and 6 even if it is able to charge data etc., the time amount on several [several hours or] is required to offer information. Furthermore, the information provider side also needed to prepare physical processing organization, such as an automatic-answering tape and an operator.

[0008] Then, in order to perform better communications service, the system which outputs specific information by the coding scheme (it is hereafter indicated as a P code (system) temporarily) expressed with a notation and a figure can be considered. And want that everyone enables it to want to be able to output information detailed when you like to high definition in a favorite location can be considered by this system.

[0009] However, if all information is used as the code of a user input, the number of codes will become huge. If the digit count of a code increases, an incorrect input will increase.

[0010] Moreover, even if the above-mentioned trouble is solved, various technical problems exist. For example, there is a problem of costs. For example, if it is going to print in a color, it is still expensive. In the world of the Internet, the service provided gratuitously with information is considered by putting an advertising provider's advertisement on an information provider's information. When ** and a general user output the information on desired at a copy shop, a convenience store, etc., printing processing is onerous, and it is **. Therefore, the general user had resistance in printing rapidly and acquiring information.

[0011] On the other hand, the advertising hit ratio (ratio of the visitor who looks at an advertisement) of an advertisement like a newspaper inserted advertisement carried at random is low, considering an advertising provider's position. Moreover, considering the position of the user who printed, the advertisement carried at random is an advertisement which is unrelated to its interest in many cases, and is obstructive only often. If these technical problems are not solved, it will be connected with the futility of paper as it is.

[0012] Moreover, there are various sizes and information on various layouts as information which a user wants to output. Therefore, when putting in an advertisement, data overflow slightly on space and there is a possibility that one sheet may be printed too many for an advertisement. On the other hand, when it reduces unconditionally and data are printed, there is a possibility that it may be reduced too much depending on the magnitude of data, and a printing result may disappear. Then, it will become the service which is unattractive for an advertising provider and a user after all.

[0013] Even if the user enabled it to choose freely whether an advertisement is outputted or it does not carry out each time, it is troublesome to perform one check of being printing each advertisement at a time, and it requires time amount. Especially, when a user performs printing by the panel in the terminal of shop fronts, such as a convenience store, long duration is spent on panel actuation and there is a possibility that the one user may occupy a terminal. Moreover, a salesclerk needs to correspond to the complaint of panel actuation not being known, and the fault that service cannot be offered efficiently is also considered.

[0014] Moreover, when it opts for the agreement that expected the output more than number of sheets with an advertising provider, and advertising number of sheets and the amount of money were fixed, there is little printed advertising number of sheets contrary to anticipation, and the advertising number of sheets for the amount of money may not be printed. Then, for an advertising provider, a result for which satisfaction goes is not brought but there is a problem.

[0015] Moreover, when carrying information and an advertisement simultaneously and printing them, and it is going to print both to the same field, it is difficult to carry a large advertisement. Moreover, in order to put two or more information and advertisements on the same field simultaneously, complicated processing is needed by automatic layout.

[0016] The information on desired is registered beforehand, and when information is registered on a network and the file which should be registered is chosen, I want to check a preview for the selected file to judge whether it is the right as early as possible, although the case where it outputs later can be considered. To it, unless an exact preview is in the condition which registered all information and was broken, it cannot be checked.

[0017] In the case of a system which pulls out information from a code, when an informational expiration date goes out, a code is usually recycled on that spot. Even if an informational expiration date goes out, access to information from the code for the information may be tried without a user noticing it. If a code is then recycled and it is connected with other information, unpleasant information may come out for a user and an information provider. (For example, when the information of the contention other company comes out etc.) For an advertising provider, even if it places an advertisement unconditionally regardless of an informational class, a hit ratio is bad again.

[0018] Moreover, although e-mail could be read from the personal digital assistant by the spread of the Internet, and the spread of personal digital assistants or the information on the Internet can be accessed, seeing those information altogether with a personal digital assistant has unreasonableness. For example, turn off long mail enough on the way, and the information with an image cannot access image information. In order to access those information, it always cannot walk around with PC. Therefore, when you like, want of enabling it to want to be able to acquire detailed information can be considered in the location which anyone can use.

[0019] Although it is the level to which a user's satisfaction of an output goes, and it is easy as much as possible and it necessary to provide, it is not easy to pay an adjustable printing tariff for origin for the price of printing number of sheets and the printed onerous information and the ad rates discounted from there.

[0020] It is rare for the information which a user needs to be the all on the other hand, although much information is carried in the newspaper. Even if there is some information needed every day surely individually, in the retrieval from PC, it is troublesome and takes time amount and time and effort. Although there is service which makes some information a pack and offers it, a user cannot necessarily choose as arbitration the combination of the information offered with the service.

[0021] Conventionally, it is the object with which specific IP (Internet provider) is generally performing informational offer, and a general user only pulls out information from the terminal for information acquisition. Moreover, although PC owner could disseminate information by establishment of Home Page, it was not the object which all men, such as description by html, can perform easily.

[0022] Moreover, it may not be considered to be desirable to carry out simultaneous printing of the advertisement of food or a restaurant at the place where the report of food poisoning appears, for example. Only by carrying the advertisement of the content which searches the character string within information and matches it, although it

becomes an opposite effect depending on the content of information, there is no means which prevents it.

[0023] Service which solves various kinds of above-mentioned technical problems and the technical problem of those combination is desired.

[0024]

[Means for Solving the Problem] In order to solve the above-mentioned technical problem, two or more print-outs in which this invention recognizes two or more code information, and two or more of said recognized code information carries out a ***** response acquire, and two or more of said acquired print-outs aim at offering the information processor, the information-processing approach, and the information-processing program which generate the print-out which is outputted with the specified layout, and transmit said generated print-out to the output-control section.

[0025] Furthermore, this invention acquires the print-out to which the another code information concerned is equivalent, when another code information is equivalent to said code information recognized by said recognition means.

[0026] Furthermore, this invention recognizes the frame information corresponding to said two or more code information, and recognizes said two or more code information that the frame information concerned corresponds, from said recognized frame information.

[0027] Furthermore, this invention deletes said code information from said two or more code information that said frame information corresponds.

[0028] Furthermore, this invention recognizes the newest code information among two or more code information that the another frame information concerned corresponds, when another frame information is equivalent to said recognized frame information.

[0029] Furthermore, this invention recognizes the code information to which the another frame information concerned is equivalent, when another frame information is equivalent to said recognized frame information.

[0030] Moreover, in order to solve the above-mentioned technical problem, this invention aims at offering the information processing terminal, the information processing approach, and information processing program which receive said two or more code information that recognize the frame information corresponding to two or more code information that it corresponds to a print-out, and said recognized frame information corresponds, from an external device.

[0031] Furthermore, the print-out to which this invention chooses said predetermined code information as among said two or more received code information, and said selected code information is equivalent receives a print-out which is outputted with a predetermined layout.

[0032]

[Embodiment of the Invention] [1st operation gestalt] Drawing 1 is drawing for explaining the example of the information offer approach of this invention, equipment, and a system. In this example, 100 is the database and the Management Department

which perform management of the information offered, management of numbering of a P code, control of an output layout, etc. Here, it will be temporarily called a CandiNet control section.

[0033] 101 is equipment with which it is installed in locations which many and unspecified users can use, such as a canteen corner, a convenience store, etc. of a station, and informational I/O, the input of a P code, etc. are performed. Here, it will be temporarily called a KIOSK terminal.

[0034] This KIOSK terminal consists of equipment for performing in a color settlement of accounts, authentication, etc. of the P-code information output unit 113 which can be printed out in high definition to both sides, settlement-of-accounts processing-facility equipment 114 for a user to inject a tariff, individual user-authentication functional equipment 115, etc., etc. in the information input unit 112 for registering information (input), and information from UI for inputting a P code or code input equipment (P-code input unit 111), and this terminal.

[0035] 120 is personal digital assistant equipment used as a means for a user to get a P code required for an information output. When people without a computer also use this, it is possible to find information to come to hand, the P code corresponding to the found information can be inputted into KIOSK terminal 110, and a desired high-definition output can be obtained.

[0036] 130 is just going to generate the data for being an information provider/IP (Information Provider), and offering various information. This separates to two kinds, the contractor treating the advertisement seen in the homepage of the usual Internet, and the contractor who offers added value information, such as anticipation of a horse race. When these contractors register the data concerning the information to offer into the CandiNet control section 100, a P code is assigned to the offered information. And the information can be outputted by a user's retrieving information with an information terminal unit, and inputting the P code corresponding to the information into KIOSK terminal 110 (printing).

[0037] under the present circumstances, the information outputted depending on the case -- ** -- both, an advertisement is printed by a tooth-space part and the rear face of a form, and the printing cost which a user should pay is mitigated.

[0038] 121 is information media other than information personal digital assistant 120, is the Internet, a newspaper journal, etc., and by notifying a P code, when the person who received the P code goes to a convenience store and inputs the P code into KIOSK terminal 110, it can output information easily (printing).

[0039] 115 performs personal authentication of whether outputting the specific information that the user has inputted the P code is permitted. 114 is equipment for performing accounting at the time of a user outputting information. This may be interlocked with POS system 140 of shop fronts, such as a convenience store.

[0040] There are the following four kinds of the contents of communications service based on the above system.

[0041] 1. Data utility : this is fundamental service of this system. As already explained, a user is the service which enabled it to print the information which IP130 offers by acquiring a P code from a terminal 120 or other information media 121, and inputting the P code into KIOSK terminal 110. The tariff for an information output is adjustable by advertising existence, rear-face printing, a color/black-and-white printing, etc.

[0042] 2. -- e-mail print service: -- when you want to print and leave the content of the electronic mail sent to for example, the information personal digital assistant, or when a user without a personal digital assistant wants to read an electronic mail at a going-out place, this is the system which can input a P code and can print the content (e-mail information) of a user's electronic mail so that it may reply to the want. The tariff of this is adjustable by advertising existence, rear-face printing, a color/black-and-white printing, etc.

[0043] 3. Personal data utility : this is the service which can acquire that with which a user not only can acquire each information by the P code according to individual, but it chose and collected favorite information and those information was unified by the P code of a user proper. For example, the "my sport journal" etc. of outputting that in which only the report of a specific team with baseball was brought together every morning at a convenience store corresponds to this service. In order for a user to receive this service, it is necessary to become a private member and to have the P code (for it to be called a personal P code) of a user proper published. And in case this P code is inputted, it is necessary to enter a password etc. into personal authentication functional equipment 115. The tariff of this is adjustable by advertising existence, rear-face printing, a color/black-and-white printing, etc.

[0044] 4. Data distribution service : this is the service which can deposit information (data) temporarily and can pull it out behind, as the vehicle of 100 yen is deposited for example, with Park. The information on desired (data) may be transmitted and deposited with the CandiNet control section 100 through the case (case A) where input information into the approach of depositing information, with the information input units 112 of KIOSK terminal 110 (scanner etc.), and it deposits, and the Internet (case B).

[0045] Then, when information is inputted and (Case A) or information is transmitted, (Case B) and a personal P code are published, and it can output by inputting the personal P code into KIOSK terminal 110 in a favorite location. The tariff of this is adjustable by advertising existence, rear-face printing, a color/black-and-white printing, etc.

[0046] Drawing 2 is the block diagram showing the control configuration of KIOSK terminal 110 and the CanDINet control section 100 which shows the gestalt of operation of this invention. In addition, as long as the function of this invention is performed, each may be the device of a simple substance and may be a system which consists of two or more devices. That is, KIOSK terminal 110 and the CanDINet control section 100 may consist of one device. Moreover, KIOSK terminal 110 and the CanDINet control section

100 may be the systems connected through networks built by the optical cable, the public line, etc., such as LAN and WAN. Furthermore, in a system, it cannot be overemphasized that two or more CanDINet control sections 100 may exist [country / every / every every place region and]. With this operation gestalt, it is this type. In drawing 2 , the information provider 130 is further connected to KIOSK terminal 100 or the CanDINet control-section 100 grade with the public line etc.

[0047] In the <CanDINet control-section 100> said drawing, CPU201 performs the document processing system in which the graphic form, the image, the alphabetic character, the table, etc. were intermingled according to the program memorized by ROM for a program (program shown in the below-mentioned flow chart) in ROM203, or mass external memory 211, and performs further database management stored in external memory 211. And the data of the information which the document processing system was carried out, was arranged and was generated, or advertising information are compressed, or are changed into the data of a script format, and the CanDINet control section 100 transmits them to KIOSK terminal 110 according to an information output protocol.

[0048] Moreover, the CanDINet control section 100 can be edited by thawing compressed data or changing the data of a script format into an image, when the information from the external information provider 130 is compressed data and data of a script format.

[0049] CPU201 controls in generalization each device connected to a system bus 204. Moreover, the operating system program (henceforth, OS) which is a control program of CPU1 is memorized by ROM for a program or external memory 211 in this ROM203. The font data used for ROM for fonts or external memory 211 in ROM203 in the case of the above-mentioned document processing system is memorized. The various data used in case the above-mentioned document processing system etc. is performed to ROM for data or external memory 211 of ROM203 are memorized. RAM202 functions as the main memory of CPU201, a work area, etc.

[0050] The keyboard controller (KBC) 205 controls the key input from a keyboard 209 or a non-illustrated pointing device. CRT controller (CRTC) 206 controls the display of CRT display (CRT) 210. A manager uses these if needed. There is no direct relation to this invention. A disk controller (DKC) 207 controls access to the external memory 211 which memorizes a boot program, various kinds of applications, font data, a user file, an edit file, a printer control command generator (following printer driver), etc., such as a hard disk (HD) and a floppy disk (FD). Through a network, it connects with KIOSK terminal 110 and the interface controller 208 performs communications control processing in a network.

[0051] In addition, CPU201 makes possible WYSIWYG (What You See Is What You Get) on CRT210 by performing expansion (rasterizing) processing of the outline font to RAM for display information for example, in RAM202. Moreover, CPU201 performs an aperture and various data processing for the various windows registered based on the

command which the user directed by the mouse cursor which is not illustrated on CRT210. If a user directs printing, the window about setting out of printing will open. In this window, a user can set up the printing art for printer drivers, such as setting out of a printer, and selection of a print mode.

[0052] In the information output unit 250 of KIOSK terminal 110, the picture signal as a print-out is outputted to the printing section (printer engine) 217 by which a printer CPU 212 is connected to a system bus 215 based on the control program memorized by the control program memorized by ROM for a program in ROM213, or external memory 214. Moreover, the control program of CPU212 shown in the below-mentioned flow chart etc. is memorized by the program ROM in this ROM213. The font data used for it in case the above-mentioned print-out is generated in ROM for fonts in ROM213 is memorized.

[0053] The information input section 218 consists of the image scanner section (it abbreviates to the scanner section), and an interface, and is connected with the CanDINet control section 100 through the network, the public line, etc. In the scanner section, a manuscript is read, digital signal processing is performed and the image information of a manuscript is generated. In the above-mentioned data distribution service, when depositing information temporarily from a shop front terminal, it is used.

[0054] Through the interface, the communications processing with the CanDINet control section 100 of CPU212 has become possible, and the CanDINet control section 100 constitutes the information in a printer etc. possible [advice]. RAM219 is RAM which functions as the main memory of CPU212, a work area, etc., and it is constituted so that memory space can be extended with the option RAM connected to the duplication port which is not illustrated. In addition, RAM219 is used for a print-out expansion field, an environmental data storage field, NVRAM, etc. As for the external memory 214 mentioned above, such as a hard disk (HD) and an IC card, access is controlled by the memory controller (MC) 220. It connects as an option and external memory 214 memorizes font data, an emulation program, form data, etc.

[0055] Moreover, the switch for the actuation prepared in the display for displaying the various below-mentioned display screens, the touch panel on the screen and/, or another location (carbon button) is arranged on the control unit 251.

[0056] Moreover, the external memory 214 mentioned above may be constituted so that not only one piece but two or more external memory in which the program which interprets the printer control language with which it has at least one or more pieces, and an option card differs from a language system in addition to a built-in font was stored can be connected. Furthermore, external memory 214 has NVRAM which is not illustrated and you may make it memorize the printer mode setting information that it was inputted from the control unit 251.

[0057] <Configuration of printer> drawing 3 is an example of the information output section (printer) of the information output unit 250 of KIOSK terminal 110, and is the sectional view of the color output section which has perfecting machine ability with a

scanner. Although it is shown in the appended figure, it cannot be overemphasized that it has the information input unit 218 explained by drawing 1 and drawing 2.

[0058] This printer scans a photoconductor drum 55 for the laser beam modulated by the image data for every color obtained based on the print data inputted from the host computer by the polygon mirror 31, and forms an electrostatic latent image. And toner development of this electrostatic latent image is carried out, a visible image is obtained, the multiplex imprint of this is carried out about a total color to the medium imprint object 49, and a color visible image is formed. And further, this color visible image is imprinted to the imprint material 42, and a color visible image is fixed on the imprint material 42. The image formation section which performs the above control is constituted by the feed section containing the drum unit which has a photoconductor drum 55, the primary live part which has the contact electrification roller 57, the cleaning section, the development section, the medium imprint object 49, the form cassette 41, or the various rollers 43, 44, 45, and 47, the imprint section containing the imprint roller 50, and the fixation section 25.

[0059] The drum unit 53 constitutes in one the cleaner container 54 which has the cleaning device which served as the holder of a photoconductor drum (photo conductor) 55 and a photoconductor drum 55. this drum unit 53 is supported free [attachment and detachment] to the body of a printer -- having -- the life of a photoconductor drum 55 -- doubling -- easy -- a unit -- it is constituted exchangeable. The above-mentioned photoconductor drum 55 applies and constitutes an organic photoconduction body whorl on the periphery of an aluminum cylinder, and is supported by the cleaner container 54 pivotable. The driving force of the drive motor which is not illustrated is transmitted, a photoconductor drum 55 rotates, and a drive motor rotates a photoconductor drum 55 in the counter clockwise direction according to image formation actuation. By making the front face of a photoconductor drum 55 expose selectively the laser beam sent from the scanner section 30, the exposure to a photoconductor drum 55 is constituted so that an electrostatic latent image may be formed. In the scanner section 30, the modulated laser beam is reflected by the polygon mirror which synchronizes the Horizontal Synchronizing signal of a picture signal by motor 31a, and is rotated, and a photoconductor drum is irradiated through a lens 32 and a reflecting mirror 33.

[0060] The development section has the configuration equipped with yellow (Y), a Magenta (M), three color development counters 20Y, 20M, and 20C that perform development of cyanogen (C), and one black development counter 21B which performs development of black (B), in order to visible-image-ize the above-mentioned electrostatic latent image. Spreading blade 20YB, 20MB, 20CB, and 21BB which carry out a pressure welding to the periphery of sleeve 20YS, 20MS, 20CS and 21BS, and each these sleeve 20YS(s), 20MS, 20CS and 20BS are prepared in the color development counters 20Y, 20M, and 20C and black development counter 21B, respectively. Moreover, spreading roller 20YR, 20MR, and 20CR are prepared in three color development counters 20Y, 20M, and 20C.

[0061] Moreover, black development counter 21B is attached removable to the body of a printer, and the color development counters 20Y, 20M, and 20C are attached in the development rotary 23 rotated centering on a revolving shaft 22 removable, respectively.

[0062] Sleeve 21BS of black development counter 21B is arranged with minute spacing of about 300 micrometers as opposed to the photoconductor drum 55. Black development counter 21B gives a charge to a toner by frictional electrification so that it may apply to the periphery of sleeve 21BS which rotates in the direction of a clockwise rotation while sending in and conveying a toner by the member built in in the vessel by spreading blade 21BB. Moreover, by impressing development bias to sleeve 21BS, according to an electrostatic latent image, negatives are developed to a photoconductor drum 55, and the visible image by the black toner is formed in a photoconductor drum 55.

[0063] Three color development counters 20Y, 20M, and 20C will rotate with a revolution of the development rotary 23 on the occasion of image formation, and predetermined sleeve 20YS, 20MS, and 20CS will counter with minute spacing of about 300 micrometers to a photoconductor drum 55.

[0064] The predetermined color development counters 20Y, 20M, and 20C stop by this in the development location which counters a photoconductor drum 55, and a visible image is created by the photoconductor drum 55.

[0065] At the time of color picture formation, the development rotary 23 rotates for every revolution of the medium imprint object 49, the medium imprint object 49 rotates four times, sequential formation of yellow development counter 20Y, Magenta development counter 20M, and cyanogen development counter 20C, and yellow, a Magenta, cyanogen and the visible image by each toner of black is carried out [subsequently, a development process is made in the order of black development counter 20B,], and, as a result, a full color visible image is formed on the medium imprint object 49.

[0066] The medium imprint object 49 was constituted so that a photoconductor drum 55 might be contacted and it might rotate with the revolution of a photoconductor drum 55, it rotates in the direction of a clockwise rotation at the time of color picture formation, and receives four multiplex imprints of a visible image from a photoconductor drum 55. Moreover, the medium imprint object 49 carries out the multiplex imprint of the color visible image on the medium imprint object 49 simultaneously at the imprint material 42 by the imprint roller 50 later mentioned at the time of image formation contacting, and carrying out pinching conveyance of the imprint material 42. Concentration sensor 49c for detecting the concentration of the toner image imprinted by the medium imprint object as TOP sensor 49a for detecting the location about the hand of cut of the medium imprint object 49 and RS sensor 49b is arranged at the periphery section of the medium imprint object 49.

[0067] The imprint roller 50 is the thing equipped with the imprint electrification machine supported possible [attachment and detachment] to the photoconductor drum

55, and is constituted by winding a metal shaft with an inside resistance foaming elastic body.

[0068] As a continuous line shows, while carrying out the multiplex imprint of the color visible image on the medium imprint object 49 at drawing 9, dehiscence of the imprint roller 50 is caudad carried out so that a color visible image may not be disturbed. And after the color visible image of four colors is formed on the above-mentioned medium imprint object 49, you make it located in the upper part which shows the imprint roller 50 by the graphic display dotted line by the cam member (un-illustrating) in accordance with the timing which imprints this color visible image to the imprint material 42. Thereby, while carrying out the pressure welding of the imprint roller 50 to the medium imprint object 49 by predetermined thrust through the imprint material 42, bias voltage is impressed and the color visible image on the medium imprint object 49 is imprinted by the imprint material 42.

[0069] Making the imprint material 42 convey, the fixation section 25 fixes the imprinted color visible image, and is equipped with the application-of-pressure roller 27 for making a fixing roller 26 carry out the pressure welding of the fixing roller 26 and the imprint material 42 which heat the imprint material 42. A fixing roller 26 and the application-of-pressure roller 27 are formed in the shape of hollow, and heaters 28 and 29 are built in the interior, respectively.

[0070] That is, while the imprint material 42 holding a color visible image is conveyed with a fixing roller 26 and the application-of-pressure roller 27, a front face is fixed to a toner by applying heat and a pressure.

[0071] After that, with the delivery rollers 34, 35, and 36, the imprint material 42 after visible image fixation is discharged to a delivery unit 37, and ends image formation actuation.

[0072] A cleaning means cleans the toner which remained on the photoconductor drum 55 and the medium imprint object 49, and the waste toner after imprinting the visible image by the toner formed on the photoconductor drum 55 on the medium imprint object 49, or the waste toner after imprinting the color visible image of four colors created on the medium imprint object 49 to the imprint material 42 is stored in the cleaner container 54.

[0073] It is conveyed so that the imprint material (record form) 42 printed may be taken out from a medium tray 41 with the feed roller 43 and it may be inserted between the medium imprint object 49 and the imprint roller 50, and a color toner image is recorded, the fixation section 25 is passed, and it is fixed to a toner image. In one side printing, a conveyance trajectory is formed so that advice 38 may lead a record form to an upper delivery unit, but to the form of double-sided printing, a trajectory is formed so that it may lead to a downward double-sided unit.

[0074] Once the record form led to the double-sided unit is sent into the lower part (conveyance trajectory shown with the NI point chain line) of a tray 41 with the conveyance roller 40, it is conveyed to hard flow, and it is sent to the double-sided tray

39. On the double-sided tray 39, a front flesh side becomes reverse and order is in the condition that the form was laid in the medium tray 41 conversely about the conveyance direction. Double-sided printing can be performed by performing imprint and fixation of a toner image again in this condition.

[0075] In addition, as a printer, you may be the electro photographic printer of not only an above-mentioned electro photographic printer but a 4-dram type, or may be the so-called bubble-jet printer of the type which carries out the regurgitation of the drop using film boiling by the thermal transfer printer or heat energy, and a piezo type ink jet printer.

[0076] Although drawing 4 did not illustrate, it is general-view drawing of the ink jet printer which can feed paper to two or more sorts of forms. In this drawing, the carriage 450 engaged to the spiral slot 404 of a leading screw 405 which is interlocked with the forward counterrotation of a drive motor 413, and is rotated through the driving force transfer gear 411, 409 has a pin (un-illustrating), and carries out both-way migration in an arrow head a and the direction of b. The ink jet cartridge 451 is carried in this carriage 450.

[0077] 402 is a paper bail plate and presses paper to a platen 400 covering the migration direction of carriage. 407, 408 is a photo coupler and is a home-position detection means for checking existence [in this region of the lever 406 of carriage], and performing a hand-of-cut switch of a motor 413 etc.

[0078] 416 is the member which supports the cap member 422 which caps the front face of a recording head, and 415 is an attraction means to attract the inside of this cap, and performs attraction recovery of a recording head through the opening 423 in a cap.

[0079] 417 is a cleaning blade, 419 is a member which makes this blade movable at a cross direction, and these are supported by the body support plate 418. It cannot be overemphasized that not this gestalt but a well-known cleaning blade can apply a blade to this example. Moreover, it is a lever for starting attraction of attraction recovery, and it moves with migration of the cam 420 which engages with carriage, and, as for 421, migration control of the driving force from a drive motor is carried out with a means of communication with a well-known clutch switch etc.

[0080] When carriage comes to the field by the side of a home position, it is constituted so that a request can be processed according to an operation of a leading screw 405 in those response locations, but if it is made to operate to well-known timing about a request, each can apply these capping, cleaning, and attraction recovery to this example.

[0081] As for this invention, two or more devices (for example, a host computer, an interface device, a reader, a printer, etc.) may really have composition.

[0082] Moreover, it is attained, also when the record medium which recorded the program of software or it which realizes the function of the operation gestalt for attaining the object of this invention is supplied to a system or equipment and the computer (or CPU and MPU) of the system or equipment carries out read-out activation of the program code.

[0083] In this case, the record medium and program which will realize the function of the operation gestalt which the program code itself read from the record medium mentioned above, and memorized that program code are the access range of this invention. As a record medium for supplying a program code, a floppy disk, a hard disk, an optical disk, a magneto-optic disk, CD-ROM, CD-R, DVD, a magnetic tape, the memory card of a non-volatile, ROM, etc. can be used, for example.

[0084] Moreover, by performing the program code which the computer read, a part or all of processing that OS (operating system) which the function of the operation gestalt mentioned above is not only realized, but is working on a computer based on directions of the program code is actual is performed, and also when the function of the operation gestalt mentioned above by the processing is realized, it is contained. Furthermore, after the program code read from the record medium is written in the memory with which the functional expansion unit connected to the functional add-in board inserted in the computer or the computer is equipped, a part or all of processing that CPU with which the functional add-in board and functional expansion unit are equipped is actual performs, and also when the function of the operation gestalt mentioned above by the processing is realized, it is contained based on directions of the program code.

[0085] When an information provider 130 wishes information offer, I make a registration application to the CanDINet control section 100, and have a P code numbered with the gestalt of <P code of information provider> book operation. At this time, an information provider 130 accesses to a CanDINet control section through a network, and inputs information required for registration into a registration screen as shown in drawing 71 -78.

[0086] First, an information provider's 130 name and contact are inputted on the registration screen of drawing 71 .

[0087] On the registration screen of drawing 72 , an information provider 130 specifies the image data or text data (henceforth information data) for information offer. Then, the preview screen (drawing 73) showing how the image data is printed out from KIOSK terminal 110 is displayed. If there is no problem in a preview screen, an information provider 130 will push the carbon button "transmitted to a server." Then, previous information data are transmitted to the CanDINet control section 100.

[0088] On the registration screen of drawing 74 , an information provider 130 specifies the expiration date of the day which starts information offer, and information offer. If an expiration date passes since the opening day of information offer, information data are no longer printed out from KIOSK terminal 110. Or even if there is a demand of information data from KIOSK terminal 110 to the CanDINet control section 100, information data will not be transmitted to KIOSK terminal 110. Moreover, on the registration screen of drawing 75 , an information provider 130 specifies a character size in case information data are printed out, and image size. Here, in case this information data is printed out, a character size can be changed from 8pt to 14pt, and it is shown that a cutback and amplification are possible for an image from 50 to 200%.

[0089] Furthermore, on the registration screen of drawing 76 , it specifies whether since it specifies whether it permits that an advertisement is carried by the same space or information data are printed out when printer out of the information data is carried out, a password is required. Moreover, even when permitting advertising printing, it can specify permitting printing to a rear face.

[0090] Furthermore, in case information offer is made onerous, a tariff is set up on the registration screen of drawing 77 . Finally, on the registration screen of drawing 78 , an information provider 130 performs what kind of information offer by information data, or registers to the CanDINet control section 100. Here, a genre subgenre is chosen from the content of the information data to offer. Furthermore, when carrying out information data print-out and carrying out [this] simultaneous printing of the advertisement, the keyword for determining what kind of advertisement is carried is inputted.

[0091] After registration in the registration screen of drawing 71 -78 is completed by the information provider 130, the CanDINet control section 100 publishes a P code to this information data. With it, based on the information inputted on the registration screen, IP information registration table about the P code is created, and it memorizes to P code DB (P-code database).

[0092] 4601 of drawing 46 is an example of IP information registration table. A P code is memorized by the leftmost train. Furthermore, the basic property about the information data corresponding to a P code etc. is memorized by this table. In addition, the link to the owner information table about the information provider who has this P code is stretched by the owner ID of an informational basic property. 5101 of drawing 51 is an example of an owner information table. The information inputted into the owner information table on the registration screen as an information provider 130 shows to drawing 71 is memorized.

[0093] With the gestalt of <P code of user> book operation, if a user makes a registration application to the CanDINet control section 100, the CanDINet control section 100 can also number the P code for user individuals (henceforth a user's P code) to this user. A user's P code is used by the e-mail print service explained in detail later, information registration service (data keeping service), and personal data utility.

[0094] A user accesses from KIOSK terminal 110, the personal computer of a house, etc. to the CanDINet control section 100 through a network, and inputs information required for registration on a registration screen as shown in drawing 58 -63.

[0095] On the registration screen of drawing 58 , a user inputs a name, a contact, etc. first. On the registration screen of drawing 59 , a password required in order to change the content of user registration is entered. In setting up a password in new registration and changing the content of registration into it henceforth, it enters the password set up at the time of new registration.

[0096] On the registration screen of drawing 60 , a user specifies for which service the P code which I have numbered from now on is used. A user's individual humanity news is

inputted on drawing 61 or the registration screen of 62. On the registration screen of drawing 62 , especially a user can register what its interested information is to the CanDINet control section 100.

[0097] Finally, a user specifies whether it is made whether it is made to print out by conspicuousness precedence, or to print out by page precedence, or it is made to print out with a default layout on the registration screen of drawing 63 , when making information print out by KIOSK terminal 110. Moreover, on the registration screen of drawing 63 , a paper size, page orientation, etc. at the time of making information print out can be specified. Moreover, on the registration screen of drawing 63 , when information or an advertisement is printed out, and double-sided printing is required, registration of whether for priority to be given and to perform double-sided printing can also be carried out.

[0098] After registration in the registration screen of drawing 58 -63 by the user is completed, a CanDINet control section publishes a P code to this user. With it, the User Information table about the P code is created, and it memorizes to P code DB (P-code database).

[0099] 4801 of drawing 48 is an example of the User Information table. A P code is memorized by the leftmost train. Furthermore, information required for it when the user property about the user who has this P code, the individual humanity news table about the user who has this P code, and this P code are used for mail service, information registration service (distribution service), and personal data utility by this table etc. is memorized. In addition, the link to the individual humanity news table about the user who has this P code is stretched by the individual humanity news table. 5001 of drawing 50 is an example of an individual humanity news table. The information inputted into the individual humanity news table on the registration screen as a user shows to drawing 58 -63 is memorized.
 [0100] Processing actuation of KIOSK terminal 110 is explained below <processing actuation of a KIOSK terminal>. Drawing 5 is the Maine flow chart of the processing actuation of KIOSK terminal 110 after a user stands before KIOSK terminal 110 and begins to use a terminal. First, when a user stands before KIOSK terminal 110, KIOSK terminal 110 shows the initial screen shown in the panel of a control unit 251 at drawing 23 (step S501). Three carbon buttons 2301, 2302, and 2303 for choosing the input approach which inputs a P code are shown in an initial screen. Moreover, the carbon button 2304 pushed when a user wants to use information registration service is shown in an initial screen.

[0101] If a user pushes either of the above-mentioned carbon buttons of an initial screen, a KIOSK terminal will judge which carbon button was pushed (step S501). When the carbon button 2302 of "a cellular phone to an input" is pushed (step S501-telephone), the screen shown in drawing 26 is displayed. Then, this screen is seen, a P code is inputted from information retrieval equipment and the terminals 120, such as a cellular phone, and a user waits to push "comprehension" carbon button on a screen, and moves from it to step S508.

[0102] On the other hand, when the carbon button 2303 of a "handy scanner input" is pushed (step S502-scanner), the screen shown in drawing 27 is displayed (step S505).

[0103] And a user makes a scanner read the code on the handy scanner code table put on the side of KIOSK terminal 110, and when KIOSK terminal 110 judges with "comprehension" carbon button having been pushed (step S506-comprehension), it moves to step S512. In addition, since only the P code of information print service is put on the handicap scan code table, it moves to processing of information print service immediately here. When it judges with the user having pushed the "revocatory" carbon button (step S506-cancellation), it returns to step S501 and an initial screen is expressed as step S506.

[0104] Moreover, in an initial screen, when the carbon button of "information registration service should push this" is pushed (step S501-data keeping), it moves to processing of information registration service (it is also called data keeping service).

[0105] Moreover, in an initial screen, when the carbon button of "inputting by the touch panel" is pushed (step S502-touch panel), the code input screen shown in drawing 24 is displayed. There are "comprehension" carbon button, "cancellation" carbon button, a "correction carbon button", and a "code input" carbon button, and it judges which carbon button was pushed to be the ten key used in case a user inputs a code into a code input screen (step S502). When a ten key is pushed, the alphabetic character and figure corresponding to the pressed key are displayed. When "correction" carbon button is pushed, the code currently displayed is once erased.

[0106] When "cancellation" carbon button is pushed (step S508-cancellation), it returns to step S501 and an initial screen is displayed. When "code input" carbon button is pushed (step S508-code input), the code by which the current input is carried out is memorized to RAM219, and a code input screen is newly displayed so that a user can input the following code (step S507).

[0107] When "comprehension" carbon button is pushed (step S508-comprehension), the code which is memorized by RAM219 and which the user inputted is transmitted to the CanDINet control section 100 (step S509). Since a CanDINet control section judges the service type relevant to the code from the received code, a KIOSK terminal receives the judgment result (service type) (step S510).

[0108] And it judges first whether the service type which received is information print service (it is also called data utility) (step S511). If it is not information print service, other service processings will be performed (step S512).

[0109] If a service type is information print service (step S511- Yes), data utility processing will be performed (step S512). In addition, about data utility processing, a detail is explained later.

[0110] When each service processing finishes with step S512 or step S512, the accounting processing screen shown in drawing 28 is displayed (step S513), and accounting processing is performed at them (step S514). In addition, when courtesy rates become no charge in process of service processing, this Maine flow chart is ended

from **, without processing steps S513 and S514.

[0111] Henceforth, actuation of KIOSK terminal 110 in each service processing and accounting processing is explained.

[0112] <Data utility processing> drawing 6 is a flow chart which shows actuation of KIOSK terminal 110 in the case of offering Information Handling Service. First, informational property data and the informational preview image data corresponding to the P code are received from a CanDINet control section about the P code which transmitted by S509 of drawing 5. The property data said here are an informational title name (file name), a tariff, the number of sheets when printing, etc.

[0113] Next, a list screen as shown in drawing 29 is displayed based on the acquired data. The list 2908 of the information corresponding to the P code which the user inputted, the printing setup keys 2901 and 2902 to each item, the "advertising setting-out" carbon button 2903 and the carbon button 2904 of a "print preview display", "printing" carbon button 2905, the carbon button 2906 "returning", and "cancellation" carbon button 2907 are shown in the list screen of drawing 29.

[0114] KIOSK terminal 110 judges whether the user pushed which carbon button (step S602). When a user pushes a printing setup key (step S603- "it does not carry out"), it memorizes any should be chosen between a "color", "black and white", and "not carrying out", and a display is changed according to it. [a "color", "black and white", and] In addition, it is shown whether the information corresponding to a P code in a "color", "black and white", and "it not carrying out" is color-printed, respectively, it considers as monochrome (monochrome) pudding, or it does not print. At the step S29 event, the "color" shall be chosen about all P codes.

[0115] When "cancellation" carbon button is pushed (step S603-cancellation), cancellation directions are transmitted to a CanDINet control section, and it returns to step S501 of drawing 5.

[0116] When a "print preview display" carbon button is pushed (step S603-preview), a preview screen as shown in drawing 30 is displayed based on the preview image data which received at step S601. The carbon button for returning to the "display of front page" carbon button for displaying the "display of following page" carbon button for displaying the preview image 3001 in which the outline of the information printed is shown, and the preview image of the following page, and the preview image of a front page, and the list screen like the point "which returns to the Maine screen" is shown in this preview screen. KIOSK terminal 110 judges whether which carbon button of a preview screen was pushed (step S610).

[0117] When a "display of following page" carbon button or a "display of front page" carbon button is pushed (step S610 No), the preview image of the following page or a front page is displayed. When the carbon button "which returns to the Maine screen" is pushed (step S610- Yes), after displaying a list screen as shown in drawing 29, it returns to step S603.

[0118] In addition, although the preview image received at step S601 was expressed as

step S605, you may make it display the preview image in consideration of the output form of the advertisement which the user chose by "advertising setting out" explained below. The output form of the advertisement which the user has chosen at present is transmitted to a CanDINet control section, and a CanDINet control section is made to create preview image data with an advertisement at this time. And preview image data with the advertisement is received, and a preview image with an advertisement is displayed on a preview screen.

[0119] On the list screen of drawing 29 , when an "advertising setting-out" carbon button is pushed (setting out of a step S603-advertisement), the screen of "advertising printing" as shown in drawing 31 is displayed (step S604), and printing tariff processing (S609) is performed.

[0120] <Printing tariff processing> With this printing service, when a user prints out the information which an information provider 130 offers, the printing tariff containing courtesy rates is paid. However, when an advertisement is put on a print, some printing tariffs are provided by ad rates and a printing tariff is reduced. Furthermore, the amount of abatement of a printing tariff changes with how to carry an advertisement or the amounts of advertisements.

[0121] Therefore, in the screen of "printing of an advertisement" of drawing 31 , a user can choose advertising output neglect, taking abatement of a printing tariff into consideration. In the screen of "advertising printing" To the tooth space as for which the report was vacant, an advertisement The carbon button 3102, the carbon button 3103 "does not carry out" whether an advertisement is printed to 1 page which will be accepted, or it does not carry out, the other "comprehension" carbon button "does not carry out" whether an advertisement is printed at the carbon button 3101 "does not carry out" whether it prints or it do carry out, and the rear face, or it do carry out ["it carrying out" and] [to choose] ["it carrying out" and] [to choose] ["it carrying out" and] [to choose] There is a "cancellation" carbon button.

[0122] Drawing 7 is a flow chart which shows actuation of KIOSK terminal 110 when carrying out printing tariff processing. First, in the screen of "advertising printing", it judges whether which carbon button was pushed (step S701). When the carbon button "is not carried out" is pushed (step S701- "it does not carry out"), it memorizes what kind of output form was chosen, and the display of a screen is changed so that a user may know any shall be chosen between "it carries out" and "not carrying out". ["it carries out" and] ["it carries out" and]

[0123] When "cancellation" carbon button is pushed (step S701-cancellation), processing is ended without setting up an advertisement. When "comprehension" carbon button is pushed, an advertising output form is transmitted to a CanDINet control section (step S703), and the printing tariff with which the advertising output form was taken into consideration is received.

[0124] In addition, when advertising printing is not performed, an information provider inputs the CanDINet control section 100 on the registration screen of drawing 77 , and

it computes a printing tariff based on the tariff stored in the column of the information price of IP information registration table of drawing 46 . At this time, a printing tariff is further computed in consideration of the tariff of a monochrome print, the tariff of a color-print, and the tariff of a form according to selection of printing setting out of drawing 29 .

[0125] Moreover, when advertising printing is performed, after computing the above printing tariffs, the CanDINet control section 100 is lengthened from the printing tariff which computed the discount rate by advertising printing once, and computes a printing tariff anew. In addition, a discount rate is taken [the amount of advertising printings, and] as adjustable on whether the advertisement was printed on the front face, or it printed on rear face.

[0126] However, when a tariff becomes negative after subtracting a discount rate from the usual printing tariff, a printing tariff is made into 0 yen, or it is set as a predetermined frame.

[0127] After ending printing tariff processing, the printing tariff of the column 2903 of a list screen is changed suitably, a list screen is displayed, and it returns to step S603 of drawing 6 .

[0128] In the list screen of <printing processing> drawing 29 , "printing" carbon button is pushed and it judges whether the printing tariff in this time is no charge, or it is a charge to a case (step S603-printing of drawing 6). A printing tariff is calculated from the tariff of the information about the P code which received at step S601, the printing tariff with which the advertisement received at step S704 was taken into consideration.

[0129] When a printing tariff is a charge, data utility processing is ended and it moves to step S513 of drawing 5 . When a printing tariff is no charge, printing processing is performed immediately (step S612), and the Main flow is ended from ** of drawing 5 .

[0130] Drawing 8 is a flow chart which shows actuation of KIOSK terminal 110 when carrying out printing processing. First, the demand of print data (print data) is given to a CanDINet control section. (Step S801) . At this time, KIOSK terminal 110 requires the print data about the P code chosen when printed on the list screen of drawing 29 . Moreover, the object for colors or the print data for black and white is received from a CanDINet control section by telling whether it prints whether it color-prints in that case in black-and-white to a CanDINet control section. Furthermore, the output form of the advertisement chosen by printing tariff processing is also told to a CanDINet control section.

[0131] And print data are received from a CanDINet control section (step S802). And the print data are transmitted to a printer (printing section 17), and printing is made to start. Furthermore, if it judges whether printing was completed or not (step S804) and is under printing (step S804- No), the screen under print will be displayed, and if printing is completed (step S804- Yes), the screen of print termination will be displayed.

[0132] In the <other service processing> above, although a series of actuation of KIOSK terminal 110 in information print service processing has been explained, information

registration service (data keeping service), personal data utility, and mail print service is explained hereafter.

[0133] <Information registration service (data keeping service)> In the initial screen of KIOSK terminal 110 of drawing 23 , when the carbon button 2304 "information registration service should push this" is pushed (step S502-data keeping of drawing 5), information registration service processing (S503) is performed.

[0134] Drawing 14 is a flow chart which shows actuation of KIOSK terminal 110 when offering information registration service. When a user uses information registration service, since the user itself is specified, a user needs to register the telephone number. Therefore, a telephone number input screen as shown in 3801 of drawing 38 is displayed first (step S1401). On the screen, it checks that "comprehension" carbon button has been pushed by the user, and the inputted telephone number is transmitted to a CanDINet control section (step S1402).

[0135] Then, a CanDINet control section judges whether the same P code as the telephone number is used as a key, and user registration has already been performed. That is, it judges whether the user is already registered to the CanDINet control section, and holds the P code. In addition, when the user has already held the P code, the CanDINet control section has the User Information table about the P code which is drawing 48 as shown 4801.

[0136] Therefore, since a CanDINet control section specifies the user's user type (here, are you a P-code holder or not?) from the inputted telephone number and it transmits to KIOSK terminal 110, KIOSK terminal 110 receives the user type (step S1403). And the user judges whether you are a P-code holder from the user type (step S1404).

[0137] If a user is not a P-code holder (step S1404- No), it will move to step S1408 immediately. If a user is a P-code holder (step S1404- Yes), he will display the password input screen of 3802 of drawing 38 , and will make a user enter a password. And the password is transmitted to a CanDINet control section (step S1406), and a CanDINet control section holds user enquiry. A CanDINet control section to a password moves from KIOSK terminal 110 to step S1408, when the right purport has been sent (step S1407- Y). When the purport which is not right has been sent (step S1407-N), it returns to step S1405 in order to make a password enter into a user again.

[0138] The information registration approach (data keeping approach) screen is expressed as step S1408.

[0139] Information may be inputted into the approach of information registration as the approach of scanning an image with a scanner and inputting information from an external instrument. For example, a user makes paper media, such as a notebook and a book, scan with a scanner in the case of the former. In the case of the latter, a user inputs information through a cable circuit or a wireless circuit at KIOSK terminal 110 from a notebook computer or a mobile terminal.

[0140] Therefore, the carbon button 3901 "which uses a scanner", and the carbon button 3902 "which uses an external instrument" are shown in the information registration

approach screen of drawing 39 . And it judges whether which carbon button was pushed (step S1409).

[0141] Scanner processing is performed when the carbon button 3901 "which uses a scanner" is pushed (step S1409- Yes) (step S1410). Drawing 15 is a flow chart which shows actuation of KIOSK terminal 110 when carrying out scanner processing. First, when a user chooses a scanner activity, the screen of scanner input directions as shown in drawing 40 is displayed (step S1501).

[0142] A user sets a manuscript, checks having pushed "comprehension" carbon button 4001 of a scanner input directions screen (step S1502- Yes), and makes a scanner scan (step S1503). And it judges whether reading of a manuscript was successful (step S1504).

[0143] If manuscript reading was not successful (step S1504-N), it returns to step S1501 in order to read again. If manuscript reading was successful (step S1504- Y), the read preview image of image data will be displayed (step S1505). Drawing 41 is an example of a preview screen. A preview image is displayed on 4101. Since the "degree" carbon button 4102, the carbon button 4103 "which registers still more nearly another data", and the "registration cancellation" carbon button 4104 are shown in a preview screen, it judges whether which carbon button was pushed (step S1506).

[0144] When the carbon button 4102 "which registers still more nearly another data" is pushed (step S1506- Yes), the image data read at step S1503 is once memorized to RAM19 or external memory 14 (step S1507). And the scanner input directions screen shown in drawing 40 is displayed again (step S1510), and it checks that "comprehension" carbon button of a scanner input directions screen has been pushed (step S1511), and returns to step S1503.

[0145] When a "degree" carbon button is pushed on the preview screen of drawing 41 (step S1506-No, step S1508-Yes), the image data read at the end is memorized to RAM19 or external memory 14 (step S1509), and this processing is ended. When a "registration cancellation" carbon button is pushed on the preview screen of drawing 41 (step S1506-No, step S1508-No), the invalid (or elimination) of the image data memorized at step S1507 or step S1509 is carried out, and it returns to step S1401 of drawing 14 .

[0146] In the information registration approach screen of drawing 39 , when the carbon button 3902 "which uses an external instrument" is pushed (step S1409- No), scanner processing and same processing are performed (step S1411). In addition, detailed explanation of step S1411 is omitted.

[0147] Termination of processing of step S1410 and step S1411 displays a password setting-out screen as shown in drawing 42 . This password is a password which needs to be entered when others other than a user or a user print out the information registered here by information print service.

[0148] Furthermore, an expiration date input screen as shown in drawing 43 is displayed (step S1602). And a user is made to choose how much carry out period registration of the information. In the expiration date input screen of drawing 43 , a

user can choose "one week" or "until tomorrow", and "one month", and KIOSK terminal 110 memorizes any were chosen.

[0149] Then, the data type of the inputted image data and image data, the pagination of image data, a password, and an expiration date are transmitted to a CanDINet control section. Then, since a CanDINet control section publishes a P code to the registered information and the P code and registration tariff are transmitted, they are received (step S1604).

[0150] At the end, the P code about the kept image data, a password, the amount of data, an expiration date, a registration tariff, etc. are displayed as shown in drawing 44 . In the case of drawing 44 , the image data into which the point was registered can be printed out by specifying a P code "09027648234#4" by information print service. Moreover, the period when a P code is effective is one week, and the image data into which the point was registered by this P code cannot be printed out after it. And what "comprehension" carbon button 4401 was pushed for by the user is checked, and this processing is ended.

[0151] At step S511 of <personal data utility> drawing 5 , if a service type is except information print service (step S511- No), other service processings will be performed (step S512). Drawing 11 is a flow chart which shows actuation of KIOSK terminal 110 when carrying out other service processings. With the gestalt of this operation, since e-mail print service and personal data utility occur as other services, it judges further whether a service type is e-mail print service or it is personal data utility.

[0152] When a service type is personal data utility (step S1101-personal data utility), personal data utility processing is performed (step S1103).

[0153] Concretely, decision whether a service type is personal data utility is performed as follows. If the inputted P code is transmitted to the CanDINet control section 100 at step S509 of drawing 5 , it will judge whether the P code into which the CanDINet control section 100 was inputted is "< telephone number >##" or "< telephone number >## <a figure>." When that is right, it judges that a service type is personal data utility, and a service type is returned to a KIOSK terminal. Drawing 12 is a flow chart which shows actuation of KIOSK terminal 110 when offering personal data utility.

[0154] First, a password input screen as shown in 3802 of drawing 38 is displayed (step S1201), and a password is entered into a user. It checks that the user has entered the password and the entered password is transmitted to a CanDINet control section (step S1202). Then, a CanDINet control section uses as a key the P code which KIOSK terminal 110 has transmitted, and searches the User Information table about the P code with step S509 of drawing 5 . And the value memorized by the column of the personal identification number in the individual humanity news table on which the link is stretched from the User Information table, and the received password are collated. If in agreement, that will be transmitted to KIOSK terminal 110.

[0155] KIOSK terminal 110 receives the response from a CanDINet control section (step S1203), and the response judges whether a password is a right purport (step S1204). If a

password is the purport which is not right (step S1204-N), it will return to step S1201 in order to make a user enter a password again. If a password is a right purport, a registration frame screen as shown in drawing 34 will be displayed (step S1205).

[0156] By registering one or more P codes to the registration frame, a user only inputs the P code (this P code is called personal P code especially here) corresponding to a registration frame into a KIOSK terminal, and can print out easily the space which consists of one or more information data registered to that registration frame.

[0157] For example, by "professional baseball yesterday's [a long sumo match score sheet /] game result" of drawing 34 , a user can print out the space of individual liking of a full load of sumo wrestling information and professional baseball information by registering two or more P codes, such as a sumo wrestling information-related P code and a professional baseball-related P code, into a registration frame "professional baseball yesterday's [a long sumo match score sheet /] game result."

[0158] In addition, to the registration frame, the personal P code is published, respectively, and "< user's P-code>## <a frame number>" becomes a personal P code here. For example, when a user's P code which the user inputted at step S507 of drawing 5 is "24535", the personal P code of the 1st registration frame of drawing 34 is set to "24535##1."

[0159] If a user chooses personal data utility on the registration screen of drawing 60 , first, a personal P code will be registered into the column of the "Personal P-Code service information" on the User Information table of drawing 48 , and the table for personal P codes of drawing 49 will be generated. Since a personal P code is the first registration frame, it is "<P code of user> ##1." Moreover, two or more registration frames can be created and the personal P code of the 2nd registration frame is set to "<P code of user> ##2." In addition, with the gestalt of this operation, it is indicated that a user's P code is a user's telephone number. The P code registered to the registration frame is stored in the "P-Code list" of drawing 49 .

[0160] In addition, although the information to which the P code registered to the registration frame corresponds may be fixed information, it is information, such as "a stock closing price" and the "tomorrow's weather", and is usually information from which the content changes with time amount.

[0161] That is, the information data with which the P code stored in the "P-Code list" of drawing 49 corresponds can be updated with time amount. Moreover, the P code stored in the "P-Code list" may be a personal P code (the personal P code which is a dimension is set to A, and this personal P code is set to B), and information data can make the newest thing the P code registered into personal P-code A among the P codes registered into personal P-code B in this case.

[0162] In addition, in case drawing 81 and drawing 82 display the registration frame screen of step S1205, they are a flow chart which shows actuation of the CanDINet control section 100. First, the part of a user's P code (telephone number) is extracted from the P code inputted by KIOSK terminal 110 (step S8101). And the User

Information table of drawing 48 is searched with a user's P code, and the information about this user's P code is acquired (step S8102). When the user has received offer of personal data utility, the personal P code is published to this user, and that personal P code is stored in the User Information table (Personal P-Code service information).

[0163] Next, it judges whether the P code inputted by KIOSK terminal 110 has finished it as "##" (step S8104). When having not finished (i.e., when the direct input of the personal P code is carried out), the flow chart of drawing 82 is performed. When having finished it as "##", in order to acquire the information about all the personal P codes published by this user, the flow chart of steps S8105-S8110 is performed.

[0164] When having finished it as "##", it is previous Personal first. Every one personal P code is acquired sequentially from the list of personal P codes in P-Code service information (step S8105). Furthermore, it is Personal of drawing 49 shortly at this personal P code. The P-Code table for P-Code service is searched, and the information about this personal P code is acquired (step S8106).

[0165] When the P code is registered into the registration frame, the P code registered is Personal. It is stored in the P-Code table for P-Code service (registration P-Code information). Therefore, it acquires one P code at a time sequentially from the list of P codes in the registration P-Code information (step S8107).

[0166] And IP information registration table of drawing 46 is searched with the acquired P code, and the information about this P code is acquired (step S8108). Here, the title of this P code etc. is contained in the information acquired.

[0167] In addition, in case the information about a P code is acquired, the discernment section of IP information registration table is checked. First, it judges whether the P code of a link place is stored in the column of a "link." Since stereo information (information data printed) is in the P code of the link place when stored, by the P code of the link place, the reconstruction measure of the IP information registration table of drawing 46 is carried out, and the information about the P code is acquired.

[0168] When the P code of a link place is not stored in the column of a "link" next, it judges whether the value stored in "the flag of whether to have Sub-Code" is investigated, and it has Sub-Code. This is frame information when it has Sub-Code.

[0169] Although frame information is equivalent to the above-mentioned registration frame, a difference is the point that it is the frame which an information provider offers. That is, frame information is created when an information provider wants to offer two or more information (for the P code to be published by each) by one P code. The hysteresis of the information data which use and change with time amount as a direction, for example is managed by Sub-Code, and it enables it to access hysteresis by one P code.

[0170] here -- Sub-Code -- max -- the inside of the P code stored in the "Sub-Code section" when judged with having Sub-Code, assuming a thing to be the newest information -- max -- it is a thing, and IP information registration table is re-searched and the information about the P code is acquired.

[0171] It judges whether it is the P code of the last in registration P-Code information (step S8109), if the P code acquired at step S8107 is not the last, it will return to step S8107, and it acquires the information about the following P code.

[0172] The personal P code acquired at step S8105 when it was the last P code is Personal. It judges whether it is the personal P code of the last in P-Code service information (step S8110), if it is not the last, it will return to step S8105, the information about the following personal P code is acquired, and if it is the last, it will progress to step S8111.

[0173] the personal P code inputted on the other hand when [which had been finished with step S8104 as "###"] judged with having finished coming out -- Personal of drawing 49 The P-Code table for P-Code service is searched, and the information about this personal P code is acquired (step S8112).

[0174] And it acquires one P code at a time further sequentially from the list of P codes in the registration P-Code information on this personal P code (step S8113), and IP information registration table is searched with that P code, and the information about this P code is acquired (step S8114). The information acquired is the same as that of step S8108.

[0175] Finally, the P code acquired at step S8113 judges whether it is the P code of the last in registration P-Code information (step S8115). If it is not the last, it will return to step S8113, the information about the following P code is acquired, and if it is the last, it will progress to step S8111.

[0176] At step S8111, the information acquired by step S8106, S8108 or step S8112, or S8114 is transmitted to KIOSK terminal 110. In this information, the title of a personal P code (registration frame), the registered title of P codes each are contained. And KIOSK terminal 110 generates the display screen of drawing 34 or drawing 36 based on this information.

[0177] In addition, the list 3411 of registration frames which the user is creating now, "information registration / modification" carbon button 3406, the "print preview" carbon button 3407, "printing" carbon button 3408, the carbon button "is not carried out" are shown in the registration frame screen of drawing 34 . ["it carries out" and]

[0178] Here, KIOSK terminal 110 judges whether which carbon button of a registration frame screen was pushed (step S1206). When the carbon button "is not carried out" is pushed ("it does not carry out"), the flag which shows whether each registration frame is printed or it does not carry out is changed and combined, and a screen display is changed. ["it carries out" and] [step S1206- "it carries out" and]

[0179] When "information registration / modification" carbon button is pushed (step S1206-registration modification), registration modification processing is performed (step S1207). Drawing 13 is a flow chart which shows actuation of KIOSK terminal 110 when carrying out registration modification processing. First, KIOSK terminal 110 displays a modification registration screen as shown in drawing 35 . Since the carbon button 3501 for directing registration of the ten key for directing the frame to change

and "comprehension" carbon button 3502, and a new frame "which registers a new frame" is shown in this modification registration screen, KIOSK terminal 110 judges whether which carbon button was pushed (step S1302).

[0180] When the carbon button 3501 "which registers a new frame" is pushed (step S1302-registration), a frame is newly created (step S1303) and it lists on the registration frame screen of drawing 34 .

[0181] a ten key pushes -- having -- an after that and "comprehension" place -- short, when 3502 is pushed (step S1302-modification) Specify the inputted frame number (step S1304), and the content of the registration frame corresponding to that frame number in this (step S1305) screen displayed as shown in drawing 36 There are a carbon button "is not carried out", a "comprehension" carbon button, a carbon button "returning". ["it carrying out" for registering the list 3640 of P codes registered into the registration frame, an "addition of new P-Code" carbon button, and P codes each, and specifying **** and]

[0182] KIOSK terminal 110 is this screen and judges whether one of carbon buttons was pushed (step S1306). When the carbon button "is not carried out" is pushed (step S1306-"it does not carry out"), the flag which shows whether P codes each are registered or it does not carry out is changed and combined, and a screen is changed (step S1307). ["it carries out" and] ["it carries out" and]

[0183] In addition, when not registering a certain P code is chosen, that is transmitted to the CanDINet control section 100 from KIOSK terminal 110. Then, the CanDINet control section 100 deletes the P code concerned from the P-Code list of the registration P-Code information on drawing 49 .

[0184] When the "addition of new P-Code" carbon button 3606 is pushed (step S1306-new code), a code input screen is displayed and a user is made to input a P code. Furthermore, the inputted P code is transmitted to the CanDINet control section 100, and the content of the information data corresponding to the P code is received. And the newly registered P code is listed on the screen of drawing 36 (step S1312), and it returns to it at step S1306.

[0185] This processing is ended, when the carbon button "returning" is pushed (step S1306- it is step S1308 in addition to this - it returns) and return and "comprehension" carbon button are pushed on step S1304 on the screen of drawing 36 (step S1306- it is step S1308 in addition to this - it understands).

[0186] When the "print preview" carbon button 3407 is pushed on the registration frame screen of drawing 34 (step S1206-preview), the information data corresponding to the P code registered into the registration frame are received, and a preview screen is displayed based on the data. Or the data for a preview in which the outline of superior hempen cloth data is shown may be received, and a preview screen may be displayed based on the data. Furthermore, a screen as shown in drawing 37 is displayed, and you may enable it to choose a frame paper size or page orientation at this step. When "comprehension" carbon button is pushed on a preview screen, it returns to step S1205.

[0187] Finally, when "printing" carbon button is pushed on the registration frame screen of drawing 34 (step S1206), printing tariff processing is performed (step S1210). This printing tariff processing is as being shown in the flow chart of drawing 7. In addition, in the case of personal data utility, suppose that an advertisement is printed by the predetermined output form with the gestalt of this operation. However, like information print service, an "advertising setting-out" carbon button may be prepared in the screen of the registration frame of drawing 34, and the same processings of a series of as steps S604 and S609 of drawing 6 may be prepared after step S1206.

[0188] If it is not the charge which judges whether a printing tariff is a charge as a result of performing printing tariff processing (step S1211) (step S1211-N), printing processing will be performed immediately (step S1213), and if it is a charge (step S1211-Y), this processing will be ended, without performing printing processing.

[0189] at step S1101 of <e-mail print service> drawing 11, it judges with a *** type being e-mail print service -- having (step S1101-mail print service) -- e-mail print service processing is performed (step S1102).

[0190] E-mail print service processing is the same as the data utility processing which the flow chart of drawing 6 shows almost. However, at step S602 of drawing 6, property data and the preview image data of e-mail are received instead of receiving informational property data and informational preview image data from the CanDINet control section 100.

[0191] Moreover, it replaces with the screen of drawing 29 and the mail box screen of drawing 32 is expressed as step S602. The list 3211 of mails addressed to a user, the printing setup keys 3204, 3205, and 3206 to each item, the "option setting-out" carbon button 3207 and the carbon button 3207 of a "print preview display", "printing" carbon button 3208, the carbon button 3209 "returning", and "cancellation" carbon button 3210 are shown in the mail box screen of drawing 32. The point different from data utility processing can display a screen when an "option setting-out" carbon button is pushed, as shown in drawing 33, and a user can choose the method of print-out e-mail. Since e-mail is mainly sent by text data, two or more mails are packed into the space of one sheet, and it can print them out. Therefore, a user can perform selection as shown in drawing 33.

[0192] Moreover, in the case of e-mail print service, suppose that an advertisement is printed by the predetermined output form with the gestalt of this operation. However, like information print service, an "advertising setting-out" carbon button may be prepared in the mail box screen of drawing 32, and the same processings of a series of as steps S604 and S609 of drawing 6 may be prepared.

[0193] <Settlement-of-accounts processing> When each service processing is completed at step S512 and step S512 of drawing 5 and printing processing is not carried out during these processings, a settlement-of-accounts processing screen as shown in drawing 28 is displayed (step S513), and settlement-of-accounts processing is performed (step S514).

[0194] The carbon button 2801 "paid at a tariff", the "credit card" carbon button 2802, the "online settlement-of-accounts" carbon button 2803, the "debit card" carbon button 2804, the "prepaid card" carbon button 2805, etc. are shown in the settlement-of-accounts processing screen of drawing 28, and a user can choose as it the settlement-of-accounts approach for which it wishes out of two or more settlement-of-accounts approaches.

[0195] Drawing 9 is a flow chart which shows actuation of KIOSK terminal 110 when carrying out settlement-of-accounts processing. After displaying a settlement-of-accounts processing screen, it judges whether the user pushed which carbon button (step S902). When "cancellation" carbon button is pushed (step S902-cancellation), cancellation directions are taken out to the CanDINet control section 100, and it returns to step S501 of drawing 5.

[0196] When "on-line-processing" carbon button 2803 is pushed (step S902-on-line processing), the screen into which a user name and a password are made to enter is displayed (step S909), the inputted information is transmitted to the CanDINet control section 100 (step S910), and predetermined on-line processing is performed.

[0197] When a "debit card" carbon button or a "credit card" carbon button is pushed (step S902-DEBITTO credit card), card information is read first (step S904). And if it does not judge and (step S905) succeed [whether reading was successful and] (step S905-N), it returns to step S904.

[0198] If it succeeds (step S905- Y), on-line processing will be required of the CanDINet control section 100 based on the card information (step S907), and the result of on-line processing will be received (step S907). If return and settlement of accounts to step S902 are good in order to make other settlement-of-accounts approaches choose, if settlement of accounts is improper as a result of on-line processing (step S908- No) (step S908- Yes), it will move to printing processing.

[0199] Cash processing is performed when the carbon button "paid in cash" is pushed (step S902-cash) (step S903). Drawing 10 is a flow chart which shows actuation of KIOSK terminal 110 when carrying out cash processing. First, the case where cash is paid to the approach of cash payment by the register according to the option of a KIOSK terminal or the policy of the store, and cash may be put into the coin purse currently installed in KIOSK terminal 110.

[0200] Therefore, when paying cash by the register (step S1001- Y) (i.e., when it is necessary to print out a bar code in a form), the print data for bar codes are generated according to a printing tariff, and the preparations added to the print data received from the CanDINet control section 100 are made.

[0201] In putting in cash from a coin purse (step S1001-N), a coin count is performed (step S1002) and it judges whether cash was paid by the printing tariff (step S1003). When a part for a printing tariff is paid, (step S1003-Yes) and this processing are ended.

[0202] Printing processing is performed when settlement of accounts is completed by one of the settlement-of-accounts approaches (step S912).

[0203] <Generation which is print data (print data)> Here, the CanDINet control section 100 explains the actuation when generating print data (print data) based on the P code which KIOSK terminal 110 has transmitted, an advertising output form, etc. If the CanDINet control section 100 has the demand of print data from KIOSK terminal 110, it will start generation of print data. Drawing 53 is a basic flow chart which shows actuation of the CanDINet control section 100 when generating print data, and drawing 17 is a flow chart which shows actuation of the CanDINet control section 100 when generating print data with an advertisement. Hereafter, it explains using the flow chart of drawing 17. In addition, although the time of generating print data from information data is mainly explained here, processing is the same even if information data replace the data of e-mail.

[0204] First, the CanDINet control section 100 acquires the P code of which the user expects print-out (step S1701). Since the P code has also already come from the KIOSK terminal when the demand of print data comes from a KIOSK terminal, the P code is acquired here.

[0205] Furthermore, the CanDINet control section 100 acquires advertising setting out (advertising output form) (step S1702). In addition, in the information print service in the gestalt of this operation, since a user can choose an advertising output form by KIOSK terminal 110 (on screen of drawing 31), the output form sent from the KIOSK terminal is acquired. Moreover, since advertising printing propriety conditions are memorized by the basic property of the information on IP information registration table (1601 of drawing 46) about the P code when advertising printing propriety conditions are specified in the reverse side case, even if an information provider 130 numbers a P code to the CanDINet control section 100, an advertising output form is determined based on the condition.

[0206] Next, the information data corresponding to the P code acquired at step S1701 are acquired from a database (step S1703). And it judges whether print data with an advertisement are generated from the output form of the advertisement acquired at step S1702 (step S1704).

[0207] In generating print data with an advertisement (step S1704- Yes), it performs paper-size decision processing (step S1705), layout decision processing (S1706), advertising size decision processing (S1707), and retrieval processing (S1708) of an advertisement in order. Moreover, in generating print data without an advertisement (step S1704- No), it performs paper-size decision processing (step S1709) and layout decision processing (S1710) in order.

[0208] Hereafter, each processing is explained.

[0209] <Paper-size decision processing> drawing 18 is a flow chart which shows actuation of the CanDINet control section 100 when carrying out paper-size decision processing. First, a service type is checked and it judges whether service is e-mail print service (step S1801). If it is not with e-mail printer service (step S1801- Y), processing will be started according to the flow chart of drawing 18. Moreover, if it is e-mail print

service (step S1801-N), processing will be started according to the flow chart of drawing 19.

[0210] First of all, let a paper size be a basic paper size at step S1802. A basic paper size makes the paper size specified on the screen a basic paper size, when the paper size and user who specified on the registration screen of drawing 63 when the user was making the registration application to the CanDINet control section 100 can specify a paper size on a screen like drawing 37 by the KIOSK terminal. Moreover, when users are any and it does not specify, it considers as A4. In addition, information required to determine a paper size is memorized in a table format like 4502 of drawing 45 according to assignment of a user, when the user is making the registration application to the CanDINet control section 100, and when the user has not made a registration application to the CanDINet control section 100, it has become like 4503 of drawing 45.

[0211] Next, the information size of the first information data is acquired (step S1803). Information size here is the size in not the amount of data of information data but the space when being printed out. In addition, with the gestalt of this operation, in case an information provider 130 registers information data to the CanDINet control section 100, setting out in case the information data is printed out is memorized in a table format like 4501 of drawing 45.

[0212] Next, according to 4502 of drawing 45, or the precedence flag of 4503, it judges whether print data are generated by conspicuousness precedence, or print data are generated by the number precedence of pages (step S1804). If it is conspicuousness precedence (step S1804- No), it will consider as temporary paper-size = information size x cutback threshold value (step S1805). Moreover, if it is the number precedence of pages (step S1804- Yes), it will consider as temporary paper-size = information size (step S1809).

[0213] And it judges whether the temporary paper size called for by step S1805 or S1809 is larger than a paper size (step S1806). If a temporary paper size is larger than a paper size (step S1806- Yes), it will consider as the minimum paper size which fills a paper-size = temporary paper size (step S1810). Moreover, if a temporary paper size is not larger than a paper size, when a temporary paper size and a paper size are the same as accuracy, it considers as a paper-size = temporary paper size (step S1807).

[0214] Decision of a paper size once judges whether there are any following information data (step S1808). If there are the following information data (step S1808- Yes), the information size of the information data will be acquired (step S1811), and it will return to step S1804. If there are no following information data (step S1808- No), from the paper size in this time, and a standard advertising ratio, a final paper size will be determined and this processing will be ended.

[0215] Moreover, when service is e-mail print service, it processes according to the flow chart of drawing 19. First of all, let a paper size be a basic paper size at step S1901. A basic paper size makes the paper size specified on the screen a basic paper size, when the paper size and user who specified on the registration screen of drawing 63 when the

user was making the registration application to the CanDINet control section 100 can specify a paper size on a screen like drawing 37 by the KIOSK terminal. Moreover, when users are any and it does not specify, it considers as A4. In addition, information required to determine a paper size is memorized in a table format like 4502 of drawing 45 according to assignment of a user, when the user is making the registration application to the CanDINet control section 100, and when the user has not made a registration application to the CanDINet control section 100, it has become like 4503 of drawing 45.

[0216] Next, the information about the first mail is acquired (step S1902). In a certain case, the size of that image file is contained [whether there is any image file of attachment in e-mail in the information about this mail here, and].

[0217] Next, when the image file (step S1903) which judges whether an attached image file is in e-mail is attached (step S1903- No), a temporary paper size is set to 0x0 (step S1907). When the image file is attached (step S1903- Yes), it moves to step S1904.

[0218] At step S1904, it judges whether print data are generated by conspicuousness precedence, or print data are generated by the number precedence of pages according to 4502 of drawing 45, or the precedence flag of 4503. If it is conspicuousness precedence (step S1904- No), it will consider as the size x cutback threshold value of a temporary paper-size = image file (step S1905). Moreover, if it is the number precedence of pages (step S1904- Yes), it will consider as the size of a temporary paper-size = image file (step S1906).

[0219] And it judges whether the temporary paper size called for by steps S1905 and S1906 or S1907 is larger than a paper size (step S1908). If a temporary paper size is larger than a paper size (step S1908- Yes), it will consider as the minimum paper size which fills a paper-size = temporary paper size (step S1910). moreover, a temporary paper size -- a paper size -- **** -- it hears -- if there is nothing, if the cutting paper size is the same as a paper size to accuracy, it will consider as a paper-size = temporary paper size at it (step S1909).

[0220] Decision of a paper size once judges whether there is any following mail (step S1911). If there is the following mail (step S1908- Yes), the information about the mail will be acquired (step S1912), and it will return to step S1903. If there is no following mail (step S1911- No), from the paper size in this time, and an advertising ratio, a final paper size will be determined and this processing will be ended. In addition, with the gestalt of this operation, an advertising ratio is made the same as the standard ratio of the amount of 4502 of drawing 45, or the advertisement of 4503.

[0221] <Layout decision processing> Layout decision processing is explained below. Drawing 20 is a flow chart which shows actuation of the CanDINet control section 100 when carrying out layout decision processing. First, the CanDINet control section 100 performs advertising partitioning processing that an advertising field should be secured (step S2001).

[0222] Drawing 80 is a flow chart which shows actuation of the CanDINet control

section 100 when carrying out advertising partitioning processing. First, the ratio of an advertising amount is determined (step S8001). With the gestalt of this operation, an advertising ratio is made the same as the standard ratio of the amount of 4502 of drawing 45 , or the advertisement of 4503. However, when either [printing independently one more ** advertisement which prints ** advertisement at the rear face by the case where the user printed to the tooth space as for which the report was vacant, and chooses **** by the input screen of drawing 31], or both are chosen, an advertising ratio here is set to 0. However, when establishing an advertising field in a rear face when **'s is chosen, and ** are chosen, it memorizes establishing an advertising field in one more sheet.

[0223] Next, it judges whether a layout predetermined with all services is used, or a different layout for every service type is used. The CanDINet control section 100 determines this according to how advertising service is offered.

[0224] In using a layout predetermined with all services, it secures an advertising field with a predetermined layout. At this time, advertising area size follows the ratio of an advertising amount. With the gestalt of this operation, 7902 of drawing 79 is considered as a predetermined layout.

[0225] Moreover, in using a different layout for every service, according to a service type, it secures an advertising field with the layout for each service. As for advertising area size, the ratio of an advertising amount is followed also at this time. With the gestalt of this operation, 7901 of drawing 79 or 7902 is considered as the layout for e-mail print services, 7903 of drawing 79 or 7904 is considered as the layout for data utility personal data utility, and 7906 of drawing 79 is considered as the layout for information registration service (data keeping service).

[0226] Suppose that the layout of 7902 is used in the flow chart of drawing 20 . Termination of step S2001 of drawing 20 judges whether print data are generated by conspicuousness precedence, or print data are generated by the number precedence of pages according to 4502 of drawing 45 , or the precedence flag of 4503.

[0227] In generating print data by conspicuousness precedence (step S2002- Yes), it acquires the information size of the first information data first (step S2003). And information data are placed according to the left corner of space (** of drawing 20), and a part for information size is secured as a shed of the information data (step S2004).

[0228] Furthermore, if it judges whether there are any following information data (step S2005) and there are the following information data (step S2005- Yes), the information size of the information data will be acquired (step S2006). And the information data is placed according to the bottom of the first information data (** of drawing 20), and a part for information size is secured as a shed of the information data (step S2004). The above is repeated until the following information data are lost. In addition, although information data tended to be placed and it was going to secure a part for information size as a shed of the information data at step S2004, when the field of the information data has protruded the paper size, or when close is kept in an advertising field, it

arranges to the following page.

[0229] In generating print data by the number precedence of pages (step S2002- No), it acquires the information size of the first information data first (step S2007). And cutback threshold value is applied to the information size (step S2008). When the text and the image are contained in information data, and it gets down at this time and "you may change in size" is confirmed on the registration screen of drawing 75 , cutback threshold value is applied to a text and each image in the range which can be changed. and the left corner of space -- doubling -- information data -- placing (** of drawing 20) -- as the shed of the information data (information size x cutback threshold value) -- a part -- it secures (step S2009).

[0230] Furthermore, if it judges whether there are any following information data (step S2010) and there are the following information data (step S2010- Yes), the information size of the information data will be acquired (step S2011). and the information data -- the bottom of the first information data -- doubling -- placing (** of drawing 20) -- as the shed of the information data (information size x cutback threshold value) -- a part -- it secures (step S2008). The above is repeated until the following information data are lost.

[0231] When the following information data are lost (step S2010- No), the field on which information data are put is expanded until it does not protrude a paper size and does not go into an advertising field (step S2012), and it is made for information data to become large as much as possible.

[0232] In addition, although information data tended to be placed and it was going to secure a part for information size as a shed of the information data at step S2009, when the field of the information data has protruded the paper size, or when close is kept in an advertising field, it arranges to the following page.

[0233] <Decision processing of an advertising field>, next decision processing of an advertising field are explained. Drawing 21 is a flow chart which shows actuation of the CanDINet control section 100 when carrying out decision processing of an advertising field.

[0234] First, advertising field = Printing area - by the printing section of a KIOSK terminal It considers as an information data area (step S2101).

[0235] And a variable "advertising size" is prepared and let advertising size be the size of the greatest advertisement in the beginning (step S8302). With the gestalt of this operation, advertising size is specified beforehand and limited to two or more kind size. An advertiser chooses from the sizes specified when registering an advertisement.

[0236] And it judges whether the advertising size goes into an advertising field (step S2103). In entering (step S2103- Yes), the advertising field of the advertising size is secured (step S2104), and it considers as the remaining advertising fields after advertising field = reservation (step S2105).

[0237] In not going into an advertising field (step S2103- No), it judges whether advertising size is already the size of the minimum advertisement (step S2106). It is advertising size when there is size of a smaller advertisement (step S2106- No). = it

considers as the size of an advertisement large next (step S2107), and returns to step S2103. This processing is ended when there is no size of a small advertisement more than this (step S2106- Yes). In addition, at step S2104, the secured advertising size and each secured part are memorized.

[0238] Moreover, decision processing of the advertising field in the case of printing an advertisement in a rear face or an attached sheet is explained. Drawing 83 thru/or 85 are flow charts which show actuation of the CanDINet control section 100 when carrying out decision processing of an advertising field.

[0239] First, advertising field = Printing area - by the printing section of a KIOSK terminal It considers as an information data area (step S8301).

[0240] And a variable "advertising size" is prepared and let advertising size be the size of the greatest advertisement in the beginning (step S8302). With the gestalt of this operation, advertising size is specified beforehand and limited to two or more kind size. An advertiser chooses from the sizes specified when registering an advertisement.

[0241] And it judges whether the advertising size goes into an advertising field (step S8303). In entering (step S8303- Yes), it secures an advertising field in the advertising size (step S8304), and it is an advertising field. = It considers as the remaining advertising fields after reservation (step S8305).

[0242] In not going into an advertising field (step S8303- No), it judges whether advertising size is already the size of the minimum advertisement (step S8306). When there is size of a still more small advertisement (step S8306- No), it is advertising size =. It considers as the size of an advertisement large next (step S8307), and returns to step S8303. When there is no size of a small advertisement more than this (step S8306- Yes), it progresses to step S84 of drawing 84 .

[0243] In the flow chart of drawing 84 , when the advertising field is secured in the rear face, decision processing of the advertising field is performed. Therefore, it judges first whether the advertising field is secured in the rear face (step S8401). This judgment is step S8001 of drawing 80 , and is performed from investigating whether it memorized establishing an advertising field in a rear face.

[0244] It is an advertising field when the advertising field is secured in the rear face. = It considers as the printing area by the printing section of a KIOSK terminal (step S8402). Hereafter, since step S8403 thru/or S8408 are the same as that of step S8303 of drawing 83 thru/or S8308, it omits explanation. In addition, in step S8407, when there is no size of a small advertisement more than this, it progresses to step S8501 of drawing 85 .

[0245] In the flow chart of drawing 85 , when the advertising field is secured to the attached sheet, decision processing of the advertising field is performed. Therefore, it judges first whether the advertising field is secured to the attached sheet (step S8501). This judgment is step S8001 of drawing 80 , and is performed by investigating whether it memorized establishing an advertising field in an attached sheet.

[0246] It is an advertising field when the advertising field is secured to the attached

sheet. = It considers as the printing area by the printing section of a KIOSK terminal (step S8502). Hereafter, since step S8403 thru/or S8408 are the same as that of step S8303 of drawing 83 thru/or S8308, it omits explanation. In addition, in step S8407, when there is no size of a small advertisement more than this, decision processing of an advertising field is ended. In addition, at steps S8304, S8404, and S8504, the secured advertising size and the secured part are memorized, respectively.

[0247] In drawing 54, an advertisement 1, an advertisement 2, an advertisement 3, and an advertisement 4 are secured in an advertising field in order, respectively. Here, for the size of an advertisement 1, the size of 10x20 and an advertisement 2 is [the size of 5x10 and an advertisement 4 of the size of 10x10 and an advertisement 3] 5x10.

[0248] With the gestalt of <advertising registration> book operation, when an advertiser wishes advertising printing, a registration application is made to the CanDINet control section 100. At this time, an advertiser accesses to the CanDINet control section 100 through a network, and inputs information required for registration from a registration screen as shown in drawing 64 -70.

[0249] On the registration screen of drawing 64, an advertiser inputs a name and a contact. When the registration application is already made, the password for registration modification may be entered. On the registration screen of drawing 65, the image data and text data (henceforth advertising data) for advertising printing are specified. Then, the CanDINet control-section 100 the transfer of the advertising data is carried out.

[0250] On the registration screen of drawing 66, an advertiser specifies the expiration date of the day which starts advertising printing, and advertising printing. If an expiration date passes since the opening day of advertising printing, advertising data can limit the area which is not used for advertising printing and where the advertising data is printed out on the registration screen of drawing 67 again.

[0251] Furthermore, on the registration screen of drawing 68, an advertiser can choose from from, while advertising size in case advertising data are printed is specified beforehand, or he can choose the modification propriety conditions of advertising size.

[0252] Furthermore, on the registration screen of drawing 69, assignment of a full-page advertisement, a top printing advertisement, and a rear-face advertisement can be carried out. Moreover, on the registration screen of drawing 70, limit of a count that an advertisement is carried and printed, and a limit of ad rates can be specified.

[0253] After registration in the registration screen of drawing 64 -70 by the advertiser is completed, the CanDINet control section 100 publishes a P code to this advertising data. With it, based on the information inputted on the registration screen, the advertising information table about the P code is created, and it memorizes to P code DB.

[0254] 4701 of drawing 47 is an example of an advertising information table. A P code is memorized by the leftmost train. furthermore, file information [this table / the property of the advertisement corresponding to a P code, and advertising data] -- ** -- it fears the account of **.

[0255] The advertising retrieval processing in step S1711 of drawing 17 is explained below to <advertising retrieval processing>. Drawing 22 is a flow chart which shows actuation of the CanDINet control section 100 when carrying out advertising retrieval processing. First, the keyword list of [for searching the advertisement to carry] is created (step S2201). Here, a keyword list is created according to a service type from the terminal information table (drawing 52) about the KIOSK terminal which is going to carry out printer out from the user profile of the User Information table (4801 of drawing 48) about the P code which the user has from the keyword list memorized by the basic property of the information on IP information registration table (4601 of drawing 46) about the P code of the information data printed out.

[0256] 5701 of drawing 57 is an example of the keyword list created from IP information registration table about the P code corresponding to a report (information data). The weight of a keyword and its keyword becomes a group and is list-ized by the keyword list.

[0257] Moreover, 5702 of drawing 57 is an example of the keyword list created from the terminal information table. Since this KIOSK terminal is put on Shibuya in Tokyo, the keyword is "Shibuya" and "Tokyo."

[0258] Next, the keyword list of the highest priority and the lowest keyword list are created. This is created with the keyword list of the highest priority to carry a specific advertising group preferentially by local definition or stage definition. Moreover, the lowest keyword list is created when a keyword list is not created at step S2202.

[0259] Two or more keyword lists of more than are arranged in order of the priority of a keyword list like 5703 of drawing 57 . And a keyword list with the highest priority is specified first (step S2203).

[0260] And the keyword in the specified keyword list is used as a search key, and advertising data are searched (step S2204). The P code (advertisement ID) of the detected advertising data is put into a retrieval result list (step S2205). And when there is a keyword which moves to step S2207 and has not been used as the search key when it searches by judging whether it searched by using all the keywords in the specified keyword list as a search key (step S2206), and using all keywords as a search key (step S2206- Yes) (step S2206- No), it returns to step S2204.

[0261] At step S2207, it asks for whenever [agreement] about the advertising data which have an advertising P code in a retrieval result list. Whenever [agreement] multiplies and searches for the weight of the keyword which detected the advertising data, and the priority of the keyword list with which the keyword belongs. Moreover, it may ask for whenever [agreement] anew from the expiration date and the count of printing which are memorized by the property of the advertisement about an advertising P code, the upper limit amount of money, the count of upper limit printing, *****, etc., and you may add to whenever [previous agreement]. Moreover, setting out of the printing location of an advertising property, the size preparation, and every width, what has a high degree of freedom may be esteemed, it may ask for whenever

[agreement] anew based on every length, and you may add to whenever [like the point / agreement].

[0262] After asking for whenever [all agreement], it is whenever [agreement] and the advertising P code in a retrieval result list is sorted. 5704 of drawing 57 is an example of a final retrieval result list.

[0263] After performing the above processing about one keyword list, it judges whether there is any other keyword list (step S2209). When there is another keyword list (step S2209- Yes), next, a priority specifies a high keyword list (step S2210), and returns to step S2204.

[0264] Generation of the print data (print data) of step S1711 of drawing 17 is explained to the <generation of print data> last. Here, the secured advertising size which was memorized by decision processing of the advertising size of step S1707 and the secured part, and the advertising data carried from the retrieval result list created by advertising retrieval processing of step S1708 are selected, and print data are generated.

[0265] The CanDINet control section 100 judges whether the advertising data to carry are agreed in the advertising size from which the advertising size memorized by the advertising information table about the P code was determined as order by advertising size decision processing from an advertising P code with whenever [agreement / of a retrieval result list / high], and selects. Not only advertising size but at this time, it takes into consideration whether size can be adjusted by the adjustment approach.

[0266] Furthermore, a layout substitute will also be performed if there are some by which the top printing advertisement is specified in the selected advertising data. For example, when the advertising data with which the top printing advertisement was specified as the advertisement 3 of drawing 54 are selected, a layout substitute is performed like drawing 55 .

[0267] Drawing 56 is an example when the generated print data are printed out.

[0268] in addition, the result of having determined the advertising output form at step S1702 of drawing 17 -- an advertisement -- a rear face -- or in printing also at the rear face, it generates the print data for outputting the advertising data which generated the print data for outputting information data first with the layout determined by layout decision processing (step S1706 of drawing 17), next were selected to a rear face.

[0269] Moreover, as a result of determining an advertising output form at step S1702 of drawing 17 , in printing one more advertisement independently, the print data for outputting information data first with the layout determined by layout decision processing (step S1706 of drawing 17) are generated, next it generates the print data for carrying out a newpage and outputting the selected advertising data to degree new page.

[0270]

[Effect of the Invention] As mentioned above, as explained in full detail, this invention enabled it to offer the information processing approach, the output-control approach, equipment, and a system including the terminal as for which registration and

informational acquisition, and informational print processing are made to the information registration / acquisition approach and system list in a network.

[0271] Or it became possible to offer the information processing approach, the output-control approach, the equipment, and the system which can add the sponsor advertisement which pays the cost for mitigating a user's information acquisition cost the optimal.

[0272] Or in order to reply to the want which cannot display about the electronic-mail information sent to the personal digital assistant that the user who wants to print and read since it is hard to read and who he wants to leave the print or does not have a personal digital assistant in it wants to read the usual electronic mail at a going-out place, a code assigns to a user's e-mail information, and it becomes that it is possible in offering the information-processing approach, the output-control approach, equipment, and a system acquirable in a code.

[0273] Or it can assign to the code of a user proper in the form which it not only acquires the information according to individual in code, but chose, collected and unified a user's favorite information, and the information processing approach, the output-control approach, equipment, and a system acquirable in code can be offered.

[0274] Or it inputs and a user acquires the assigned code from a terminal so that the information which a user owns may be deposited temporarily, and he can provide also as the information processing approach which can pull out in code the information which those who recognize the code inputted in the time amount and the location of arbitration, the output-control approach, equipment, and a system.

[0275] Or by offering U/I including control command, input code can be shortened and U/I can be simplified. Auxiliary information becomes more intelligible for a user than a code [minerals to urge a user input interactively using GUI].

[0276] Or since the tariff which a user pays becomes cheap to adjustable, it becomes easy to use by putting an advertisement into a print.

[0277] Or it can reduce now in the range which does not spoil the alphabetic character printed, amplification of an image, and the grace as a print which can set up cutback tolerance.

[0278] An upper limit or a minimum is attached and it charges in the meantime according to the charge of printing. It is solved by making it the meter-rate system. Or becoming, if an agreement tariff is not indefinitely paid by setting up an upper limit is lost.

[0279] Moreover, about the printing price used as adjustable, with informational printing, a bar code is printed, and by reading it, a tariff can judge by a register etc. promptly and that also of the mistake of a tariff is lost with an advertisement.

[0280] Moreover, without being able to use space effectively and affecting an informational layout also under an easy layout regulation, by printing an advertisement for an advertisement at the rear face, unlike a display, since an advertisement can be placed, and a flesh side also looks inevitable if it is paper, advertising worth does not fall

so much, either. Moreover, a big advertisement which uses the whole space can be made now.

[0281] When directions called a print can all be made to perform the activity of choosing various information in the shop, troublesome time and effort can be saved and the information which it is going to output by the easy activity can be printed.

[0282] shop fronts, such as a convenience store, -- setting -- an information access terminal -- installing -- from [there] -- being cheap (it being no charge by attaching an advertisement) -- if it can print now, simple information can be acquired with a personal digital assistant, and a detail can be used as a hand in paper. The convenience of information access became good by leaps and bounds by that. Moreover, when people gather in a convenience store etc., it also becomes acceleration of a sale at a convenience store.

[0283] The information which a user needs in a procedure easy every day can be acquired now by Frame registration of the frame to a Personal P-Code system, a layout, etc.

[0284] A 1st storage means to memorize the 1st value information over the print-out which should be outputted by this invention as explained in full detail above, The read-out control function which shows the value over the additional information added to said print-out and which controls read-out of the information from the 2nd storage means which carries out the 2nd value information storage, It became possible to offer the information processing approach or equipment with the decision function to determine the countervalue of the output of said print-out based on said 1st and 2nd value information by which reading appearance is carried out from said 1st and 2nd storage means, based on said additional information added to said print-out.

[0285] The memory storage function which memorizes the output attribute information that it is indicated by this invention that the output attribute of a print-out explained in full detail above, The transfer facility which relates said output attribute information memorized with the code information corresponding to said print-out, and is transmitted to an external device, The 1st value information showing worth of said print-out acquired based on said code information transmitted by said transfer facility and said output attribute information, It became possible to offer a power control device and an approach with the reception function to receive the information which shows the countervalue of the output of said print-out determined based on the 2nd value information which shows the value over the additional information added to said print-out.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing for explaining the example of the information offer approach of this invention, equipment, and a system.

[Drawing 2] It is drawing showing configuration block drawing of KIOSK terminal 110 and the CanDINet control section 100 showing the gestalt of operation of this invention.

[Drawing 3] It is the sectional view of the color output section which has a scanner and the perfecting machine ability which is an example of the information output unit 113 information output section (printer) of KIOSK terminal 110.

[Drawing 4] Although not illustrated, it is general-view drawing of the ink jet printer which can feed paper to two or more sorts of forms.

[Drawing 5] It is drawing showing the Maine flow chart of processing actuation of KIOSK terminal 110.

[Drawing 6] It is the flow chart which shows actuation of KIOSK terminal 110 in the case of offering Information Handling Service.

[Drawing 7] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out printing tariff processing.

[Drawing 8] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out printing processing.

[Drawing 9] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out settlement-of-accounts processing.

[Drawing 10] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out cash processing.

[Drawing 11] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out other service processings.

[Drawing 12] It is the flow chart which shows actuation of KIOSK terminal 110 when offering personal data utility.

[Drawing 13] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out registration modification processing.

[Drawing 14] It is the flow chart which shows actuation of KIOSK terminal 110 when offering information registration service.

[Drawing 15] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out scanner processing.

[Drawing 16] It is the flow chart which shows actuation of KIOSK terminal 110 when carrying out scanner processing.

[Drawing 17] It is the flow chart which shows actuation of the CanDINet control section 100 when generating print data with an advertisement.

[Drawing 18] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out paper-size decision processing.

[Drawing 19] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out paper-size decision processing in e-mail print service.

[Drawing 20] It is the flow chart which shows actuation of the CanDINet control section

100 when carrying out layout decision processing.

[Drawing 21] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out decision processing of an advertising field.

[Drawing 22] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out advertising retrieval processing.

[Drawing 23] It is drawing showing the initial screen of a KIOSK terminal.

[Drawing 24] It is drawing showing a code input screen.

[Drawing 25] It is drawing showing a password input screen.

[Drawing 26] It is drawing showing the screen at the time of making a code input from a cellular phone.

[Drawing 27] It is drawing showing the screen at the time of making a code input by the handy scanner.

[Drawing 28] It is drawing showing a settlement-of-accounts processing screen.

[Drawing 29] It is drawing showing a list screen.

[Drawing 30] It is drawing showing a preview screen.

[Drawing 31] It is drawing showing the screen of "advertising setting out."

[Drawing 32] It is drawing showing a mail box screen.

[Drawing 33] It is drawing showing the screen for choosing the method of print-out e-mail.

[Drawing 34] It is drawing showing a registration frame screen.

[Drawing 35] It is drawing showing a modification registration screen.

[Drawing 36] It is drawing showing the screen which displays the content of the registration frame corresponding to a frame number.

[Drawing 37] It is drawing showing the screen for choosing a frame paper size or page orientation.

[Drawing 38] It is drawing showing a telephone number input screen.

[Drawing 39] It is drawing showing the information registration approach screen.

[Drawing 40] It is drawing showing the screen of scanner input directions.

[Drawing 41] It is drawing showing an example of a preview screen.

[Drawing 42] It is drawing showing a password setting-out screen.

[Drawing 43] It is drawing showing an expiration date input screen.

[Drawing 44] It is drawing about the kept image data showing the screen which displays a P code, a password, the amount of data, an expiration date, and a registration tariff.

[Drawing 45] It is drawing showing information required in order to determine a paper size.

[Drawing 46] It is drawing showing an example of IP information registration table.

[Drawing 47] It is drawing showing an advertising information table.

[Drawing 48] It is drawing showing an example of the User Information table.

[Drawing 49] It is drawing showing an example of P code table for personal P-code service.

- [Drawing 50] It is drawing showing an example of an individual humanity news table.
- [Drawing 51] It is drawing showing an example of an owner information table.
- [Drawing 52] It is drawing showing a terminal information table.
- [Drawing 53] It is the basic flow chart which shows actuation of the CanDINet control section 100 when generating print data.
- [Drawing 54] It is drawing showing an example of the layout of advertising data.
- [Drawing 55] It is drawing showing an example of the layout of advertising data after performing a layout substitute.
- [Drawing 56] It is drawing showing an example when the generated print data are printed out.
- [Drawing 57] It is drawing showing an example of the keyword list created from IP information registration table.
- [Drawing 58] It is drawing showing a registration screen for a user to input a name, a contact, etc.
- [Drawing 59] It is drawing showing the registration screen for entering a password required in order to change the content of user registration.
- [Drawing 60] It is drawing showing the registration screen for specifying for which service the P code which I have numbered is used.
- [Drawing 61] It is drawing showing the registration screen for inputting a user's individual humanity news.
- [Drawing 62] It is drawing showing the registration screen for registering what the information in which a user is interested is to the CanDINet control section 100.
- [Drawing 63] It is drawing showing the registration screen for specifying with which layout it prints out by what precedence.
- [Drawing 64] It is drawing in which an advertiser shows the registration screen for inputting a name and a contact.
- [Drawing 65] It is drawing showing the registration screen for specifying the image data and text data for advertising printing.
- [Drawing 66] It is drawing showing a registration screen for an advertiser to specify the expiration date of the day which starts advertising printing, and advertising printing.
- [Drawing 67] It is drawing showing the registration screen for limiting the area where advertising data are printed out.
- [Drawing 68] It is drawing in which an advertiser shows the registration screen for choosing from from while advertising size in case advertising data are printed is specified beforehand, or choosing the modification propriety conditions of advertising size.
- [Drawing 69] It is drawing showing the registration screen for carrying out assignment of a full-page advertisement, a top printing advertisement, and a rear-face advertisement.
- [Drawing 70] It is drawing showing the registration screen for specifying limit of a count that an advertisement is carried and printed, and a limit of ad rates.

[Drawing 71] It is drawing showing the registration screen for inputting an information provider's name and contact.

[Drawing 72] It is drawing showing the registration screen for specifying the image data or text data for information offer.

[Drawing 73] It is drawing showing the preview screen showing how image data is printed out from a KIOSK terminal.

[Drawing 74] It is drawing showing a registration screen for an information provider to specify the expiration date of the day which starts information offer, and information offer.

[Drawing 75] It is drawing showing a registration screen for an information provider to specify a character size in case information data are printed out, and image size.

[Drawing 76] It is drawing showing the registration screen for specifying whether a password is required since it specifies whether it permits that an advertisement is carried by the same space or information data are printed out when printer out of the information data is carried out.

[Drawing 77] It is drawing showing the registration screen for setting up a tariff.

[Drawing 78] It is drawing in which an information provider's performing what kind of information offer by information data, or showing the registration screen of a ***** sake.

[Drawing 79] It is drawing showing the class of layout.

[Drawing 80] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out advertising partitioning processing.

[Drawing 81] It is the flow chart which shows actuation of the CanDINet control section 100 at the time of displaying a registration frame screen.

[Drawing 82] It is the flow chart which shows actuation of the CanDINet control section 100 at the time of displaying a registration frame screen.

[Drawing 83] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out decision processing of a surface advertising field.

[Drawing 84] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out decision processing of an advertising field on the back.

[Drawing 85] It is the flow chart which shows actuation of the CanDINet control section 100 when carrying out decision processing of the advertising field of an attached sheet.

[Description of Notations]

110 KIOSK Terminal

100 CanDINet Control Section

130 Information Provider

251 Control Panel

[Translation done.]

